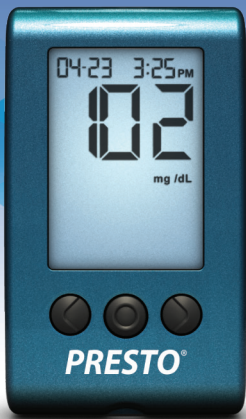# AgaMatrix®

PRESTO®

04-23 3:25 PM

02

mg /dL

PRESTO®

Toll Free, 24-Hour Customer Service:
+1 (866) 906 4197
In case of emergency, contact your healthcare professional or emergency medical response.

BLOOD GLUCOSE MONITORING SYSTEM

OWNER'S GUIDE

Your AgaMatrix Presto System (the "system") includes:

- AgaMatrix Presto Blood Glucose Meter
- Two Pre-installed CR2032, 3 volt, Lithium Batteries
- Lancing Device with Cap
- 1 Vial of 10 Test Strips
- Clear AST Lancing Device Cap
- 10 Sterile Lancets
- Compact Carrying Case
- Control Solution
- Owner's Guide

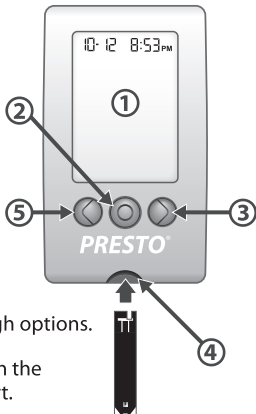## About the AgaMatrix Presto Meter (the "meter")

(1) Display: Glucose test results, symbols, messages and graphs appear here. Your display may differ slightly from the one in the guide.

(2) CENTER ◎ Button: Use the CENTER button to confirm an option or make a selection in a menu.

(3) RIGHT ◯ Arrow Button: Use the RIGHT arrow button to scroll forward through options.

(4) Test Strip Port: Insert the test strip, with the contact bars facing up, into the test strip port.

(5) LEFT ◯ Arrow Button: Use the LEFT arrow button to scroll backward through options.

IMPORTANT: Your AgaMatrix Presto Meter should be used with AgaMatrix Presto Test Strips ("test strips") and AgaMatrix Control Solution ("control solution") only. Do not use other brands of test strips and control solution with this meter. This may produce inaccurate results.

Visit us at: www.myagamatrix.com

Key Feature in the meter

No Coding Required -
The meter doesn't require you to enter a code. Insert a test strip and you are ready to test.

Contents

CHAPTER 1 Getting Started

Unpack your blood glucose monitoring system. Dispose of the packing material properly.

IMPORTANT: To ensure accurate use of meter, verify the time, date and units of measure.

For step-by-step instructions on setting the time and date settings, please refer to Chapter 15 "Setting Time Format, Time, and Date."

CHAPTER 2 Important Information about Your System

The system should be used:

[1] For measuring blood glucose levels from fresh capillary whole blood samples taken from the fingertip, palms (at the base of the thumb), or forearms.

[2] For *in vitro* (i.e. outside of the body) diagnostic use only.

[3] With the test strips specified on the inside front cover of this owner's guide and AgaMatrix Control solution only. Do not use other brands of test strips and control solution with this meter. This may produce inaccurate results.

[4] For use at home (over the counter (OTC)) by persons with diabetes, or in a clinical setting by healthcare professionals, as an aid to monitor the effectiveness of diabetes control.

Do not use the system for:

[1] The diagnosis of diabetes.

[2] Testing the glucose levels of neonates (children under 4 weeks).

[3] Testing glucose levels of arterial or venous blood.

[4] Testing glucose from sites other than the fingertip, palm (at the base of the thumb), or forearm.

Possible test sites:

The system requires only 0.5 µL of blood to perform a glucose test. For the best results, test glucose from the tips of any finger. The palm (at the base of the thumb) and forearm are alternate, but less accurate, test sites. Only select soft and fleshy areas to lance. Avoid lancing any bony areas, obvious veins and moles.
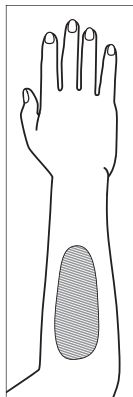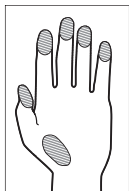
Physiological differences in circulation between the fingertip, palm (at the base of the thumb), and forearm may result in differences in blood glucose measurements between these sites. Differences in glucose concentrations may be observed after eating, taking insulin medication, or exercise. Changes in blood glucose may be detected in the fingertips before the palm (at the base of the thumb) and forearm.

It is recommended that you use a fingertip sample if:

[1] You are testing for hypoglycemia or if you suffer from hypoglycemia unawareness,

[2] You are testing your blood glucose within 2 hours of eating, taking insulin, medication, exercise, or

[3] Your blood glucose results obtained from the palm (at the base of the thumb) or forearm are not consistent with the way you feel.

CAUTION: Please read all the instructions provided in this owner's guide and practice the testing procedures before using the blood glucose monitoring system. Blood glucose monitoring should be done under the guidance of a healthcare professional.

CAUTION: To ensure accurate results, wash your hands and the test site with warm, soapy water and dry before and after every test. Unwashed hands and test sites may lead to inaccurate results. Make sure there is no grease, oil or lotion on the test site. Use lancets only once. Do not use any lancet or lancing device that has been used by another person.

About the Test Strip

With your system, you can test your blood glucose on your fingertips, palms (at the base of the thumb) and forearms. Testing with the system requires a small sample size; 0.5 μL of blood, about the size of a pinhead.

Contact Bars:
Insert this end, facing up, into the meter's test strip port.

Visual Fill Window:
The window will turn red when enough blood has been applied or blue when enough control solution has been applied.

Sample Area:
Apply blood or control solution to the tip of the test strip here.

CAUTION: Discard used test strips properly.

IMPORTANT: Use test strips only once.

IMPORTANT: Only use the test strips specified on the inside front cover with this system.
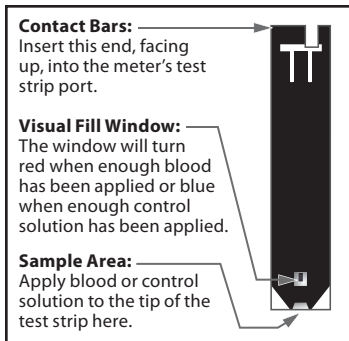
Important Test Strip Information:

[1] Store the test strip vial in a cool, dry place at 46 °F to 86 °F (8 °C to 30 °C).

[2] Use test strips only within the system operating temperature range of 50 °F to 104 °F (10 °C to 40 °C).

[3] Keep away from direct sunlight and heat.

[4] Store your test strips in their original vial only; never store them in another vial, any other container or outside the vial.

[5] After removing a test strip from the vial, immediately close the vial cap tightly.

[6] With clean, dry hands you may gently handle the test strip when removing it from the vial or inserting it into the meter.
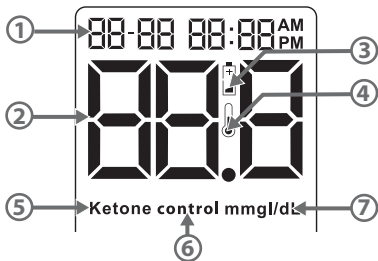
[7] Do not use test strips beyond the expiration date or 90 days after first opening the vial. This may cause inaccurate results. Write the discard date (90 days from the first opening) on the test strip vial.

[8] Do not bend, cut or alter test strips.

[9] Apply only fresh capillary blood or control solution to the sample area of the test strip.

About the Meter Display Segments

(1) Date and Time: Appears here, including when the meter is deactivated.

(2) Glucose Test Results

(3) Low Battery: Appears when the batteries in your meter are running low.

(4) Temperature Symbol: Appears when the meter is outside its operating temperature range of 50 °F to 104 °F (10 °C to 40 °C).

(5) Ketone Symbol: Appears when your glucose test results are higher than 240 mg/dL.

(6) Control Solution Symbol: Appears after you have performed a control solution test.

(7) Units of Measurement: Results will be displayed in mg/dL.
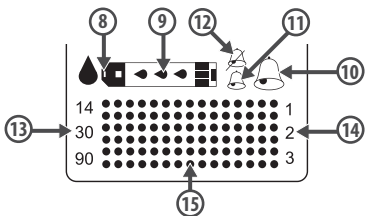
(8) Apply Sample to Test Strip: The test strip symbol and flashing droplet symbol will signal you to apply sample to the test strip.

(9) Sample Entering Test Strip: The three droplet symbols will appear within the test strip symbol when blood or control solution enters the test strip.

(10) High Volume: Large bell indicates high volume.

(11) Low Volume: Small bell indicates low volume.

(12) Volume OFF: Small bell with a line across it indicates the volume is muted.

(13) 14, 30, and 90 Day Indicators: The appropriate number of days will appear when viewing graphical averages.

(14) 1,2,3 Countdown: The 1, 2 and 3 symbols will appear during a test.

(15) Graphing Area: Areas of the dot matrix will appear during a test and when displaying graphs.

About the Lancing System

Note: Lancing devices and Lancets are only intended for a single user and should not be shared between users.

(1) Cocking Handle: Cocks the device so it is ready to lance.

(2) Depth Adjustment Dial: Adjusts how deep the lancet will lance the skin.

(3) Depth Indicator Window: Displays the depth setting of the lancing device.

(4) Release Button: Fires the lancet.

**(5) Lancet:** Lances the skin to produce a drop of blood.

(6) Lancet Cover: Covers the lancet for safety.

(7) Lancing Device Cap: Covers the lancet when in lancing device.

(8) Alternate Site Testing Cap: An AST clear lancing device cap used for obtaining a blood sample on the palm (at the base of the thumb) or forearm.

(9) Lancet Holder Cup: Holds the lancet into place inside the lancing device.
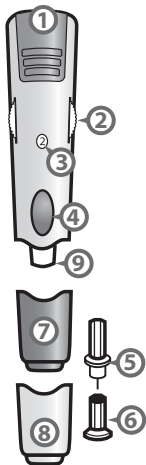
When using your meter, avoid getting dirt, dust, blood, control solution, water, or any other liquid into the test strip port, or data port. You should wash your hands thoroughly after handling the meter, lancing device, or test strips. Your meter and lancing device should be cleaned periodically. Cleaning will remove visible dirt and blood.

Cleaning your Meter and Lancing Device

CAUTION: Never immerse the meter or the body of the lancing device in water or any other liquid. Be careful when cleaning your meter. Avoid getting liquid into your meter's test strip port or data port.

When should you clean your meter and lancing device?
You should clean them whenever visibly dirty.

What can you use to clean your meter and lancing device?
You can use a cloth dampened with mild detergent or mild soap. Do not immerse meter or body of the lancing device in liquid.

How do you clean your meter and lancing device?
1. Clean the outside of the meter or lancing device using a cloth dampened with mild detergent or mild soap. Avoid getting liquid inside the test strip port, and the data port.

2. If you wish to clean the lancing device cap only, remove the cap. Wash it in warm water, rinse well, and dry.

METER SYSTEM CHECK

Each time your meter is first activated, the meter will perform a meter system check. All display segments and the backlight will briefly flash ON.

IMPORTANT: If all the display segments DO NOT flash ON (each time your meter is first activated), do not use the meter. Call customer service immediately.
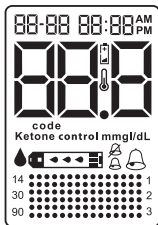
HOW TO ACTIVATE THE METER AND

View Individual Results:

[1] When your meter is deactivated, press any button once. The display shows the most recent test result with time and date. **[2]** Press the LEFT arrow button repeatedly to scroll thru every test result, starting from the most recent and ending with the oldest.

View Time-of- Day Averages:

[1] When your meter is deactivated, press any button once. The display shows the most recent test result with time and date. **[2]** Press the RIGHT arrow button repeatedly to scroll thru your Breakfast, Lunch, Dinner, and Bedtime Averages.

Enter MENU Mode:

[1] When your meter is deactivated, press and hold any button for 2 seconds to enter the MENU mode.

[2] Press the RIGHT or LEFT arrow buttons to view the options: MEM (14, 30, and 90 Day Averages and Graphs), SET (meter settings), and AL1 to AL6 (reminder alarms 1 thru 6).

Enter MEM (Memory) Mode to view 14, 30, and 90 Day Averages and Graphs:
[1] Enter the MENU mode.
[2] Press the RIGHT or LEFT arrow buttons until the MEM symbol is displayed.
[3] When the MEM symbol is displayed, press the CENTER button.

Enter SET (Settings) Mode:
[1] Enter the MENU mode.
[2] Press the RIGHT or LEFT arrow buttons until the SET symbol is displayed.
[3] When the SET symbol is displayed, press the CENTER button.

HOW TO DEACTIVATE THE METER
To deactivate the meter, press and hold the CENTER button for 2 seconds. If left inactive for 3 minutes, the meter will be deactivated automatically.

HOW TO ACCELERATE THRU OPTIONS
Hold down the RIGHT or LEFT arrow buttons to accelerate thru options or results.

6 Important Health-related Information

Please Read the Following:

[1] 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.

[2] Severe dehydration and excessive water loss may yield inaccurate results. If you believe you are suffering from severe dehydration, consult your healthcare professional immediately.

[3] Patients undergoing oxygen therapy may receive inaccurate results.

[4] Results below 70 mg/dL may mean low blood glucose levels (hypoglycemia).

[5] Results over 240 mg/dL may mean high blood glucose levels (hyperglycemia). Checking ketones may be advisable.

[6] If you get results below 70 mg/dL or above 240 mg/dL and do not have symptoms of hypoglycemia or hyperglycemia, repeat the test. If you have symptoms, or continue to get results that fall below 70 mg/dL or rise above 240 mg/dL, follow the treatment plan recommended by your healthcare team or contact your healthcare professional immediately.

[7] If you are experiencing symptoms that are not consistent with your blood glucose test and you have followed all

instructions described in this Owner's Guide, follow your healthcare professional's recommendations.

[8] If you get repeated error messages and are experiencing symptoms of hypo or hyperglycemia, contact your healthcare professional immediately as this may indicate low or high glucose. If this error code persists on retesting, consult your healthcare professional.

[9] Do not use test strips that are expired or appear to be damaged as they may return inaccurate results.

[10] Healthcare professionals should follow their institution's infection control protocols.

[11] Always follow your healthcare professional's recommendations.

The normal fasting adult blood glucose range for a person without diabetes is 70-99 mg/dL.[1]

Treatment goals are individualized for each patient. Speak with your healthcare provider about the target blood glucose ranges that are right for you.

[1]American Diabetes Association; Standards of Medical Care in Diabetes (Position Statement); Diabetes Care. 2011;34 (suppl 1):S11-S61.

7 Performing a Control Solution Test

The meter can be used with AgaMatrix Control Solution.

There are two Control Solutions available - Normal and High. If you would like to use either a Normal or High Control Solution, please contact Customer Service at the number listed on the front cover of this Owner's Guide.

Control solution should only be used for 90 days after first opening the bottle or until the expiration date printed on the label, whichever comes first.

IMPORTANT: Count forward 90 days from the date you open a new bottle of AgaMatrix Control Solution. This is your discard date. Write the discard date on the AgaMatrix Control Solution bottle.

CAUTION: Results from control solution tests do not reflect your blood glucose level. The control solution range is a target range for control solution only. It is not a target range for your blood glucose level.

The control solution is used to:

[1] Ensure that your meter and test strips are working together properly.

[2] Practice testing without having to use your own blood.

Control solution tests should be performed when you:

[1] First get your meter.

[2] Suspect that your meter or test strips are not working properly.

[3] Think your test results are not accurate.

[4] Have dropped or damaged your meter or exposed your meter to liquids.

**[5]** Are advised by your healthcare professional to do so.

Important AgaMatrix Control Solution information:

[1] Use only AgaMatrix Control Solution with your system.

[2] Always replace the cap on the control solution bottle immediately after use.

[3] Do not add water or any other liquid to control solution.

[4] Control solution tests should be performed within the system operating temperature range of 50 °F to 104 °F (10 °C to 40 °C).

How to perform a control solution test:

[1] Inserting a test strip:
Gently insert a new test
strip into the meter. The
meter will be activated.
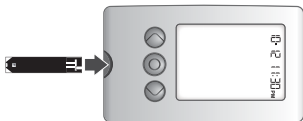
[2] Meter Ready For Test: The meter
now displays the blood drop and test
strip symbols. The system is now ready
for you to apply control solution. You do
not need to set a calibration code for this
meter.

[3] Applying Control Solution: Shake the control solution
bottle. Discard the first drop of control solution and wipe the
bottle tip clean using a clean tissue or paper towel. Dispense
a second drop onto a clean surface, such as an unused
resealable plastic bag.

Bring the tip of the test strip to the control solution sample.
The system will automatically detect if a test is performed
with AgaMatrix Control Solution.

This is the visual
fill window. *DO
NOT PUT CONTROL
SOLUTION HERE.*

Apply control
solution here.
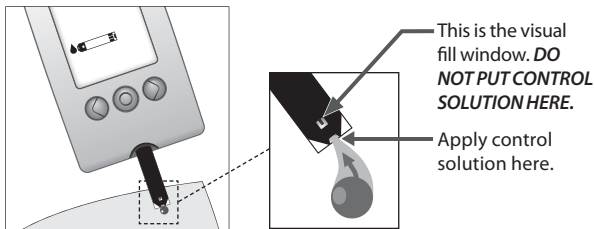
When control solution is applied, the visual fill window on the test strip turns blue.

The entire visual fill window will turn blue.
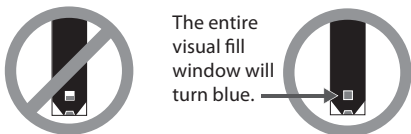
Your meter will beep once indicating that you should remove the tip of the test strip from the control solution sample.

On the meter display, the droplet symbols appear on the test strip symbol.

[4] Viewing Control Solution Test Result:
The result will appear on the display and, if the volume is enabled, your meter will beep once. The word "control" will also appear on the display.

Compare the result of your control solution test to the range printed on the test strip vial label for the control solution level (normal or high) that you used. Your control solution result should fall within this range. The control solution test result is stored in memory.

To deactivate the meter, remove the used test strip. Dispose of used materials properly. If your control solution test results are out of the range, repeat the test. If the results

10-12 11:30 PM

115

control   mg/dL

TEST STRIPS

CONTROL SOLUTION RANGE:

Normal: 80-120 mg/dL

High: 220-320 mg/dL

FOR EXAMPLE ONLY. Refer to your test strip vial label for corresponding range.

from the control solution tests continue to fall outside that range, do not use the system to test your blood glucose. Call customer service.

IMPORTANT: Out-of-range results may be due to one or more of the following factors:

[1] Expired or defective control solution.

[2] Expired or defective test strip.

[3] Error in performing test.

[4] Watered-down control solution.

[5] Meter malfunction.

[6] Control solution test done outside the system operating temperature of 50 °F to 104 °F (10 °C to 40 °C).

[7] Failure to shake the control solution bottle vigorously before using.

[8] Failure to discard the first drop of control solution and to wipe the bottle tip clean.

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8 How to Test Your Blood Glucose Level

CAUTION: To ensure accurate results, wash your hands and the test site with warm, soapy water and dry before every test. Unwashed hands and test sites may lead to inaccurate results. Make sure there is no grease, oil or lotion on the test site. Use lancets only once. Do not use any lancet or lancing device that has been used by another person.

Instructions for cleaning your meter and lancing device are in Chapter 4, page 12.

IMPORTANT:

[1] Remove the test strip from the blood sample as soon as you hear the beep.

[2] Do not press the test strip against the test site.

[3] Do not scrape blood onto the test strip.

[4] Do not apply blood to the top side of the test strip.

[5] Do not apply blood to the test strip when the test strip is out of the meter.

[6] Do not put blood or foreign objects into the meter's test strip port. Doing so may lead to system failure.

[7] Do not apply more blood after the test strip's visual fill window completely turns red and the moving dot bar and

1-2-3 begins on the meter's display.

[8] Carefully read the test results on the display before making any treatment decisions.

CAUTION: The lancing device and lancets should only be used by one person. Never share lancing devices or lancets. Used test strips, lancets, and lancing devices may be considered biohazardous or medical waste in your city or town. Follow all local regulations for proper disposal. You should wash your hands thoroughly with soap and water after handling the meter, lancing device, and test strips.
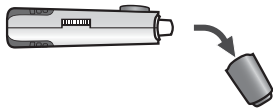

How to test your blood glucose level:

[1] Preparing the Lancing Device:

Use the gray cap for testing on a fingertip and the clear cap for testing on the palm (at the base of the thumb) or forearm.

Remove Lancing Device Cap: Snap off the cap from the lancing device.

Insert New Lancet: Insert a new lancet firmly into the lancet holder cup. Pushing the lancet into the lancet holder cup may cock the device; this is OK.

Twist the Lancet Cover Off: Hold the lancet firmly in place with one hand and use your other hand to twist off the lancet cover. Do not discard the lancet cover. It should be used when discarding your used lancet.

Replace Lancing Device Cap: Replace the lancing device cap until it snaps into place. Be careful not to touch the exposed needle on the lancet.

Set the Lancing Level: The lancing device offers 8 depth settings. Rotate the dial to the desired setting as shown in the depth indicator window. Level 1 is the most shallow; level 8 is the deepest. If you have never lanced before, it is recommended that you start at level 3.
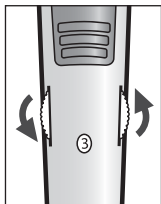
Cock the Handle: Pull the cocking handle out until it clicks. You may have already cocked the handle accidentally while inserting the lancet; this is OK. The lancing device is now ready for use.

[2] Insert a Test Strip:

Insert a new test strip into the meter.

Make sure you insert the test strip, with the contact bars facing up, into the test strip port. The meter will be activated when the test strip is fully inserted.

Note: If you do not start the test within 3 minutes, the meter will be deactivated. To reactivate your meter, take out the unused test strip and reinsert it into the meter.

Meter Ready For Test: The meter now displays the blood drop and test strip symbols. The system is now ready for you to apply blood. You do not need to set a calibration code for this meter.

[3] Lancing

To ensure accurate results, wash hands with warm, soapy water and dry before every glucose test. For details on possible test sites, refer to Chapter 2, "Important Information About Your System."

For instructions on how to test on your palm or forearm, please refer to Chapter 9, "Testing On Your Palm or Forearm."

Note: Keep your hand warm or gently massage the site you are lancing to stimulate blood flow.

Lance Test Site: Press the lancing device against the site to be lanced. Press the release button.


Release Button
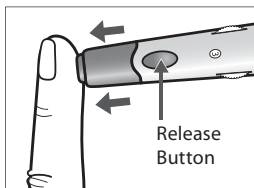
Express Blood Drop: Wipe away the first blood drop that appears using a clean tissue or paper towel. Squeeze from the base of your finger up towards the tip, until a second small blood drop forms. Do not squeeze directly around the lanced area.
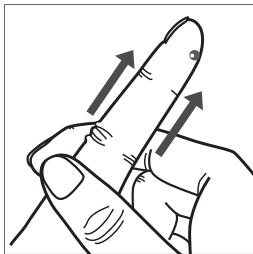
[4] Applying Blood Sample

Bring Test Strip to Blood Sample: The meter now displays the blood drop and test strip symbols. This means your system is now ready for you to apply blood. Immediately bring the test strip to the blood sample.

The test strip fills from the tip. Do not try to smear blood on the top surface.
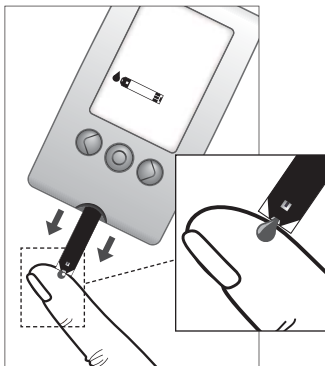
The test strip acts like a sponge and draws the blood into the test strip through the sample area. The visual fill window of the test strip will turn red.

This is the visual fill window. ***DO NOT PUT BLOOD HERE.***

Apply blood here.

The entire visual fill window will turn red.

Remove Test Strip from Blood Sample when you hear the beep: Your meter will beep once, when you should remove the tip of the test strip from the blood sample.

On the display, blood drop symbols appear on the test strip symbol.
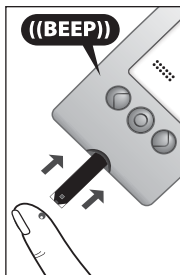
The moving dot bar and 1-2-3 indicates that the meter is calculating your results.

Your test is completed when your blood glucose test result with time and date is shown on the display. If the volume is enabled in SET Options, you will hear a beep. Your test result is now stored in the memory.
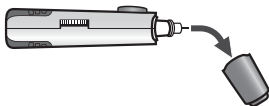
[5] Final Steps

Remove the Test Strip: Remove the used test strip. The meter will automatically deactivate.
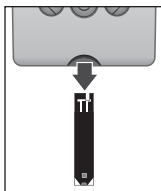
Remove the Lancet: When you have finished testing, snap off the cap from the lancing device. Be careful not to touch the lancet tip.

Place the lancet cover onto a hard, even surface (such as a tabletop) with the open-end facing up. While the lancet is still in the lancing device, bring the lancet tip to the lancet cover to recover the used lancet. You can then safely handle the used lancet.
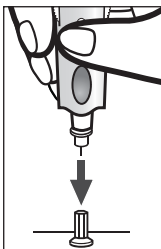
Extract the lancet from the lancet holder cup by pulling on the plastic collar of the lancet (near the middle of the lancet).

Replace the lancing device cap onto the lancing device until it snaps or clicks into place.

Discard Properly: Discard the used test strip and lancet properly.

Wash your hands thoroughly with soap and water after handling the meter, lancing device, and test strips.

9 Testing on Your Palm or Forearm

Testing glucose levels with blood obtained from the palm (at the base of the thumb) or forearm may reduce the pain of testing. The technique for testing on the palm and forearm is slightly different than testing on the finger. Always discuss changes to your testing habits with your healthcare professional.

IMPORTANT: When testing on the palm (at the base of the thumb) or forearm, you may need to set the lancing device to a deeper setting or use a larger lancet to obtain enough whole blood to perform a test. Consult your healthcare professional for a recommendation.

When testing on alternate sites always use the clear lancing device cap that has been specifically designed for this purpose. The clear plastic allows you to see a blood drop form without removing the lancing device and the concave tip aids in the collection of a blood sample.

CAUTION: Alternate Site Testing (AST)
Physiological differences in circulation between the fingertip, palm (at the base of the thumb), or forearm may result in differences in blood glucose measurements between these sites. Differences in glucose concentrations may be observed after eating, taking insulin medication, or exercise. Changes in blood glucose may be detected at the fingertips before the palm (at the base of the thumb) or forearm.

It is recommended that you use a fingertip sample if:
  • You are checking for hypoglycemia or if you suffer from hypoglycemia unawareness,

- You are checking your blood glucose within 2 hours of eating, taking insulin or medication, exercising, or
- Your blood glucose results obtained from the palm (at the base of the thumb) or forearm are not consistent with the way you feel.

CAUTION: To ensure accurate results, wash your hands with warm, soapy water and dry before every test. Clean and make sure there is no grease, oil or lotion on the test site.

---

[1] Prepare Lancing Device: Follow Chapter 8, step 1 to prepare the lancing device. Replace the gray lancing device cap with the clear cap.
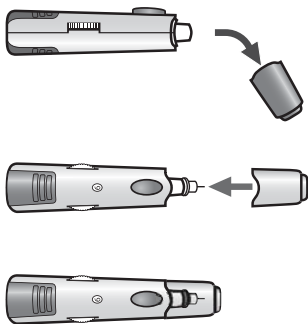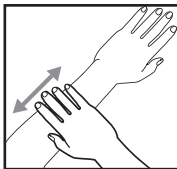

[2] Follow Chapter 8, step 2, to prepare for glucose testing.

[3] Rub Test Site: To increase the blood flow in your palm (at the base of the thumb) or forearm, rub the area that you will be testing. Ensure that your palm or forearm is facing up and held level.
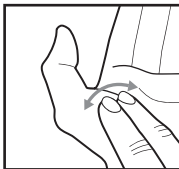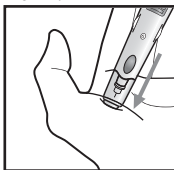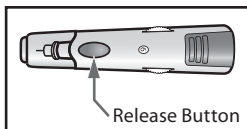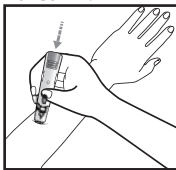
Palm: Forearm:

[4] Lance Test Site: Press the tip of the clear cap against your skin on the palm of your hand (at the base of the thumb) or forearm. Hold the tip to the test site for a few seconds before pressing the release button.

Palm: Forearm:

Release Button

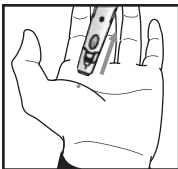**[5] Express Blood Drop:** After lancing, hold the lancing device against your skin until a blood droplet forms. Do not squeeze directly around the lanced area. Make sure the blood drop is large enough to completely fill the visual fill window of the test strip. Pull the lancing device directly off your palm or forearm to ensure that you do not smear the blood drop.
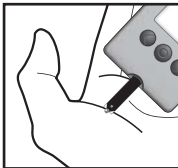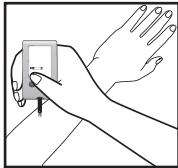
Palm:

Forearm:
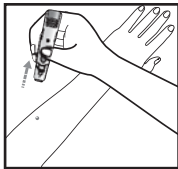
Palm:

Forearm:

This chapter covers the steps on how to view your:
– 14 Day Numerical Average and Trend Graph
– 30 Day Numerical Average and Trend Graph
– 90 Day Numerical Average and Trend Graph
– 14, 30, and 90 Day Averages Comparison Graph

The meter calculates the averages from the last 14, 30 and 90 days, starting from the current time and date shown on the meter. Control solution, Hi and Lo test results, out-of-temperature-range results and results without a valid time / date are not included in the averages.

IMPORTANT: Results, averages, and graphs stored in memory should only be used as a reference. Do not make treatment decisions based solely on stored results, averages and graphs. Consult with your healthcare professional regarding treatment options.
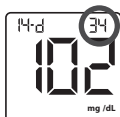
---

[1] Enter MENU Mode: Press and hold any button for 2 seconds to enter the MENU mode.

[2] Enter Memory Option: When the MEM symbol appears, press the CENTER button to enter the Memory option.

Note: Use the RIGHT or LEFT arrow buttons to scroll through the MENU Mode options.

MEM

The number of glucose test results saved (within the time period) is displayed in the top right corner.

[3] Viewing MEMORY Test Results

View 14 Day Averages and Graphs:
The display shows your 14 day numerical average. Press the RIGHT or LEFT arrow buttons to view your 14 day trend graph.
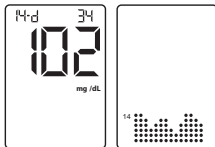
You can move from the 14 day trend graph to the 14 day numerical average by pressing the RIGHT or LEFT arrow buttons.

View 30 Day Averages and Graphs:
Press the CENTER button to view your 30 day numerical average. Press the RIGHT or LEFT arrow buttons to view your 30 day trend graph.
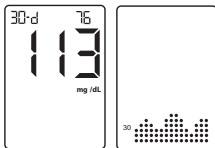
You can move from the 30 day trend graph to the 30 day numerical average by pressing the RIGHT or LEFT arrow buttons.

View 90 Day Averages and Graphs:
Press the CENTER button to view your 90 day numerical average. Press the RIGHT or LEFT arrow buttons to view your 90 day trend graph.
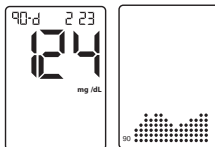
You can move from the 90 day trend graph to the 90 day numerical average by pressing the RIGHT or LEFT arrow buttons.

One dot represents 50 mg/dL.

14 day view	1	5	10	14
30 day view	2	10	20	30
90 day view	6	30	60	90
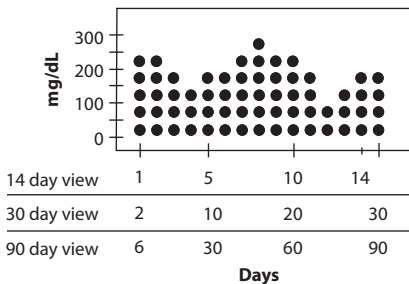
Days

***View 14, 30 and 90 Day Average Comparison
Graph:*** Press CENTER button to view your 14,
30 and 90 day average comparison graph. The
display shows an overview with three trend bars
comparing the 14, 30 and 90 days averages.
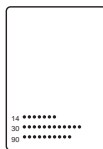
One dot represents 20 mg/dL.
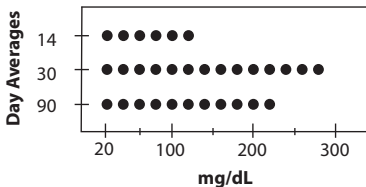
11 Time-of-Day Averages and Individual Results

This chapter covers the steps on how to view your:
– Most Recent Glucose Test Result
– 300 Past Glucose Test Results, with time and date
– Breakfast, Lunch, Dinner and Bedtime Averages

The meter calculates averages of all the test results during breakfast, lunch, dinner and bedtime. Control solution, Hi and Lo test results, out-of-temperature-range results, and results without a valid date / time are not included in the averages. Averages are composed of results only within the last 14 days. Breakfast averages include glucose measurements between 4:00 AM and 10:00 AM, lunch averages are between 10:00 AM and 4:00 PM, dinner averages are between 4:00 PM and 10:00 PM and bedtime averages are between 10:00 PM and 4:00 AM.

---

[1] Viewing Time-of-Day Averages

Press any button once when the meter is deactivated. The display shows the most recent glucose test result with the time and date.

Press the RIGHT arrow button. The display now shows your breakfast average.

Press the RIGHT arrow button. The display now shows your lunch average.

```
Lunch
110
mg/dL
```

Press the RIGHT arrow button. The display now shows your dinner average.

```
dinnEr
97
mg/dL
```

Press the RIGHT arrow button. The display now shows your bedtime average.
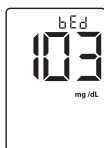
Note: To return to the most recent test result, press CENTER button.

```
bEd
103
mg/dL
```

[2] Viewing Individual Results

Press and release the CENTER button. The display will show the most recent glucose test result with the time and date. Up to 300 past results will be saved. Use the LEFT arrow button to view every saved test result, starting from the most recent and ending with the oldest.

```
11-23 12:00pm
98
mg/dL
```

Note: At any point, press CENTER button to return to the most recent test result.

12 Display Messages

CAUTION: Low or high blood glucose test results can indicate a potentially serious medical condition. Follow your healthcare professional's recommendations.

LO MESSAGE: ᠐᠍ᡃ

Flashing message, with double beep (if volume is enabled in SET Options)

MEANING: Glucose test result is lower than 20 mg/dL. This Lo result may indicate hypoglycemia (low blood glucose). The Lo result is stored in the memory with time and date. It will not be included in averages.

ACTIONS: If you feel symptoms such as weakness, sweating, nervousness, headache or confusion, follow your healthcare professional's recommendations. If you get a Lo glucose test result but have no symptoms of low blood glucose, then retest with a new test strip. If you still get a Lo test result, follow the treatment plan recommended by your healthcare team or contact your healthcare professional immediately.

HI MESSAGE: Hi

Flashing message, with double beep (if volume is enabled in SET Options)

MEANING: Glucose test result is above 600 mg/dL. This Hi result may indicate hyperglycemia (high blood glucose). The Hi result is stored in the memory with time and date. It will not be included in averages.

ACTIONS: If you feel symptoms such as fatigue, thirst, excessive urination, or blurry vision, follow your healthcare professional's recommendations. If you get a Hi glucose test result but have no symptoms of high blood glucose, then retest with a new test strip. If you still get a Hi glucose test result, follow your healthcare professional's recommendations. Checking ketones may be advisable.

HYPOGLYCEMIC WARNING ALARM: HY PO
Test result flashes, with double beep (if volume is enabled in SET Options)

MEANING: If the Hypoglycemic Warning Alarm is set, your glucose test result is lower than the pre-set limit.

HYPERGLYCEMIC WARNING ALARM: HY Pr
Test result flashes, with double beep (if volume is enabled in SET Options)

MEANING: If the Hyperglycemic Warning Alarm is set, your glucose test result is higher than the pre-set limit.

KETONE MESSAGE: Ketone
Flashing message, with double beep (if volume is enabled in SET Options)

MEANING: The result of the glucose test is higher than 240 mg/dL.
ACTIONS: You should check ketones. Follow your healthcare professional's recommendations.

TEMPERATURE MESSAGE:

Flashing message, with double beep (if volume is enabled in SET Options)

MEANING: The test has been performed outside the operating temperature range.
ACTIONS: Move to an area with an ambient temperature of 50 °F to 104 °F (10 °C to 40 °C). Wait for the meter and test strips to reach the new temperature (usually 10-20 minutes) and retest.

LOW BATTERY MESSAGE:

Flashing message

MEANING: The battery in your meter is low.
ACTIONS: If the battery symbol appears, the batteries must be replaced. If the battery symbol appears, the backlight will be disabled in all modes.

13 Setting Alarms

There are 6 alarms you can set to remind you when to test
your glucose levels.

When alarms are activated:

[1] If an alarm is set and the meter is deactivated, the alarm
will activate the meter. "AL1" thru "AL6" (depending which
alarm is set) is displayed. The display backlight flashes, and
the meter will beep repeatedly for 15 seconds.

[2] You can turn the alarm OFF by pressing any button.

[3] The alarms will not appear during Menu and Test Modes.
If an alarm is set to sound or flash while using these modes, it
will alarm after the meter is deactivated.

---

*CAUTION: Follow your healthcare professional's
recommendations on when and how often to test your
glucose.*

---

[1] Enter MENU Mode: When your meter is deactivated,
press and hold any button for 2 seconds to enter
the MENU mode.

[2] Enter Alarm Option: The MEM symbol
appears. Press the RIGHT or LEFT arrow buttons
until the alarm you want to set is displayed (AL1

to AL6). If this is your first time setting an alarm, use AL1. Press CENTER to select an alarm to set.

[3] Turning Alarms ON or OFF: Press the RIGHT or LEFT arrow buttons to enable (ON) or disable (OFF) the alarm. The default setting is OFF. Confirm your selection by pressing CENTER button. Your selections will be highlighted by a blinking symbol.

[4] Setting Alarm Times: You can now set the alarm time. First, set the flashing numbers (hour) with the RIGHT or LEFT arrow buttons. Accelerated change is possible by holding down the arrow buttons.
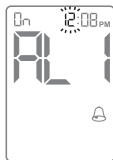
Press CENTER to confirm and to move on to set the minute.

Set (minute) with the RIGHT or LEFT arrow buttons.

Press the CENTER button to confirm the alarm time and to move on to set the alarm volume.

[5] Setting Alarm Volumes: There are three volume options. A silent alarm will only flash the meter's backlight. The default setting is "high". Select your preferred setting with the RIGHT or LEFT arrow buttons. Confirm by pressing the CENTER button. This will bring you back to MENU Mode.

Note: The volume of an alarm will be affected by the meter's volume setting, which can be changed in the meter's settings (SET) option. If your meter is set to silent mode, then the alarm

will not sound, regardless of the individual alarm setting. Also, if your meter is set to low volume mode, then an alarm set for high volume will default to low volume mode.

[6] Setting Multiple Alarms: To set other alarms, press the RIGHT or LEFT arrow buttons until the alarm you want to set (AL1 to AL6) is displayed. Follow the previous steps in this Chapter 13, "Setting Alarms."

CHAPTER 14 Setting Meter Volume and Backlight

[1] Enter MENU Mode: When your meter is deactivated, press and hold any button for 2 seconds to enter the MENU mode.

[2] Enter SET Option: The MEM symbol will appear. Press the RIGHT or LEFT arrow buttons until the SET symbol is displayed. Press the CENTER button.
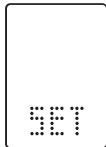
[3] Setting Meter Volume: There are three beep volume options. The default setting is "high." Select the preferred volume setting with the RIGHT or LEFT arrow buttons. Your selection will be highlighted by the blinking of the symbol. Press the CENTER button to confirm your selection. Continue to set the MENU Mode Backlight option.

Note: The meter will always produce a beeping sound after you have applied blood or control solution to a test strip. This sound lets you know when to take your blood sample or control solution away from the test strip. You will hear this sound if the volume is set to ON or OFF in the SET Options.

[4] Setting Backlight Option: You can enable or disable the backlight. The default setting for the backlight is disabled.

Select the preferred setting with the RIGHT or LEFT arrow buttons. Press the CENTER button to confirm and continue on to set the Time Format and Time.

Note: Disabling the backlight in the SET menu also disables backlight for alarms.

CHAPTER 15 Setting Time Format, Time, and Date

[1] Enter MENU Mode: When your meter is deactivated, press and hold any button for 2 seconds to enter the MENU mode.

[2] Enter SET Option: The MEM symbol will appear. Press the RIGHT or LEFT arrow buttons until the SET symbol is displayed. Press the CENTER button.

[3] Setting Time: Press CENTER repeatedly until you see a screen with the message 12H or 24H, you are ready to set the meter's time.

Select a 12 or 24 hour clock format with the RIGHT or LEFT arrow buttons.

The 12 hour clock display option is indicated by a 12H. The 24 hour clock display option is indicated by a 24H. Your selection will be highlighted by the blinking of the symbol.

Press the CENTER button to confirm your selection and move on to the hour setting.
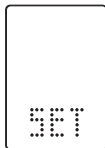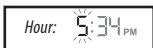
Set the hour (flashing) with the RIGHT or LEFT arrow buttons. Press the CENTER button to confirm and continue on to set the minute.

| Hour: | 5:34 PM |

Set the minute (flashing) with the RIGHT or LEFT arrow buttons. Press the CENTER button to confirm and continue on to set the date.

| Minute: | 6:34 PM |

[4] Setting Date: Set the month (flashing) with the RIGHT or LEFT arrow buttons. Press the CENTER button to confirm and continue on to the day setting.

| Month: | 08-26 20 11 |

Set the day (flashing) with the RIGHT or LEFT arrow buttons. Press the CENTER button to confirm and move on the year setting.

| Day: | 08-26 20 11 |

Set the year (flashing) with the RIGHT or LEFT arrow buttons. Press the CENTER button to confirm and continue on to set the Hypo Limit.

| Year: | 08-26 20 11 |

16 Setting Hypoglycemic and Hyperglycemic Warning Alarms

[1] Enter MENU Mode: When your meter is deactivated, press and hold any button for 2 seconds to enter the MENU mode.

[2] Enter SET Option: The MEM symbol will appear. Press the RIGHT or LEFT arrow buttons until the SET symbol is displayed. Press the CENTER button.

[3] Setting Your Hypoglycemic Warning Alarm:

WARNING: Your healthcare professional should recommend what your hypoglycemic limit is.

Press the CENTER button repeatedly until you see the HYPO symbol in the top right corner of the screen. You are ready to set the Hypoglycemic Warning Alarm. The Hypoglycemic and Hyperglycemic Warning Alarms are set to "OFF" by default.

The Hypoglycemic Warning Alarm alerts you when your glucose test results are below the hypoglycemic limit that you have set. The meter is pre-set to a hypoglycemic limit of 70 mg/dL. Always consult your healthcare professional for your recommended target ranges. When your glucose test results are below your set hypoglycemic limit, the date, time and result will flash on the display.

Set the Hypoglycemic Limit ON or OFF with the RIGHT or LEFT arrow buttons. Your selection will be highlighted by the blinking of the symbol. Press the

CENTER button to confirm your selection.

Set the Hypoglycemic Limit (flashing) with the RIGHT or LEFT arrow buttons. Press CENTER button to confirm and continue on to set the Hyper Limit.

[4] Setting Your Hyperglycemic Warning Alarm:

WARNING: Your healthcare professional should recommend what your hyperglycemic limit is.

The Hyperglycemic Warning Alarm alerts you when your glucose test results are above the hyperglycemic limit that you have set. The meter is pre-set to a hyperglycemic limit of 240 mg/dL. Always consult your healthcare professional for your recommended target ranges. When your glucose test results are above your set hyperglycemic limit, the date, time and result will flash on the display.

Set the Hyperglycemic Limit ON or OFF with the RIGHT or LEFT arrow buttons. Your selection will be highlighted by the blinking of the symbol. Press the CENTER button to confirm your selection.

Set the Hyperglycemic Limit (flashing) with the RIGHT or LEFT arrow buttons. Press the CENTER button to confirm. This will bring you back to MENU Mode at the SET options.

17 Error Messages and Troubleshooting

The blood glucose monitoring system has been designed to work accurately under most usual conditions. On rare occasions, the meter will display an error message instead of a glucose result. The system is able to detect specific problems which may allow you to determine the cause of the error without wasting valuable test strips. When you are presented with an error message, check for common problems that may explain the source of the error.

CAUTION: In certain cases, the meter may return an error code or provide an inaccurate result if it is being used near electrical equipment, like a power generator or a computer monitor. If this is the case, move the meter away from the source of electrical interference.

CAUTION: If you get repeated error messages and are experiencing symptoms of hypo or hyperglycemia, contact your healthcare professional immediately as this may indicate low or high glucose. If this error code persists on retesting, consult your healthcare professional.

Error 1: $Er\ 1$

Problems have occurred that are related to test strip use.

[1] If this message appears the moment the test strip is inserted, the test strip may be wet or damaged.
[2] If the message appears during a test, the test strip may

have been removed too early.
[3] If this message appears after the last progress bar instead of a result, it may indicate that you applied more blood after testing began.

Error 2: Er 2

The meter has detected an irregularity with the sample.

[1] The test strip may be partially filled; you should check the window of the test strip to confirm that it is full.
[2] The sample may not be blood or control solution.

Error 3: Er 3

The meter has detected that the test strip is in poor condition.

[1] The test strip may have been improperly stored (e.g. hot, humid conditions) or may be expired.
[2] The test strip may have been mishandled by vigorous bending or shaking.
[3] Parts of the test strip may have become covered in grease, oil, or lotion.
[4] The test strip port connector may be dirty.

Error 4: Er 4

The meter was unable to produce a result or unusual test strip problems have occurred that may be related to extreme conditions.

[1] This error may be caused by extremely high glucose. If you are experiencing symptoms of hyperglycemia, contact your healthcare professional immediately. If this error code persists on retesting, consult your healthcare professional.
[2] Retest where it is closer to a room temperature of 70 °F to 75 °F (21 °C to 24 °C).

Error 5: $Er\ 5$

The meter was unable to produce a reliable result.

[1] This may be caused by a non-blood sample, or a combination of high glucose and other medical conditions.
[2] If this error code persists on retesting, consult your healthcare professional.
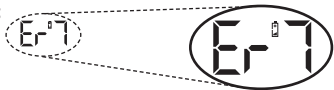

Error 6: $Er\ 6$

The test strip has taken too long to generate a signal.

[1] This may be caused by a combination of cold operating temperature and high hematocrit levels. Retest in a warmer location.
[2] If this error code persists on retesting, consult your healthcare professional.

Error 7 with Battery Icon:

Replace batteries immediately before testing.

Error 7: $Er\ 7$

Meter problems have occurred that are beyond your control. Contact customer service for assistance.

Troubleshooting Situation #1: Meter does not enter the test mode after inserting an test strip.

[1] CAUSE: The batteries have insufficient power.
ACTION: Replace the batteries, set time and date, and test.

[2] CAUSE: The batteries are installed incorrectly or there are no batteries in the meter. **ACTION:** Check that both batteries are installed correctly, with the positive (+) sign facing up towards you.

[3] CAUSE: Test strip has been inserted upside down, wrong end in, or incompletely inserted into the meter.
ACTION: Insert the Test Strip with the black side up and the contact bars of the test strip in the meter. Ensure that the test strip is fully inserted.

[4] CAUSE: Defective meter or defective test strips.
ACTION: Call customer service.

[5] CAUSE: Blood or foreign objects put into the meter test strip port. **ACTION:** Call customer service.

Troubleshooting Situation #2: The glucose test sequence does not start after applying the blood sample.

[1] CAUSE: Defective test strip. **ACTION:** Repeat the test with a new test strip. If this does not work, call customer service.

[2] CAUSE: Sample applied after meter times out and deactivates. **ACTION:** Repeat the test using a new test strip. Wait until you see the blood and test strip symbols on the display screen before you apply the blood sample.

[3] CAUSE: Defective meter. **ACTION:** Call customer service.

18 Batteries

CAUTION: When the battery symbol appears, you should replace the batteries immediately. Only use CR2032 batteries.

Your meter comes with two pre-installed, CR2032, 3 volt, lithium batteries. If your batteries run low, the battery symbol flashes until you change the batteries. The backlight is disabled in all modes when the battery symbol is on. When changing batteries the current time and date settings will be reset. The time and date will automatically be set to 01-01 12:00. Correct time and date settings are needed to get correct averages. Removing the batteries does not affect the meter's memory or previously stored user settings, such as those set in SET Options (e.g. alarms). If a battery is installed incorrectly it will damage the other battery in the meter. If this happens discard both batteries.

Note: Dispose of used batteries according to your local environmental regulations. Your meter is an electronic device. When disposing of your meter follow all local environmental regulations.

Replacing the Batteries

[1] Open Battery Door: Make sure the meter is deactivated. Turn the meter so you are looking at the battery door. Press the battery door clip to open. Remove the
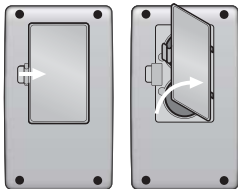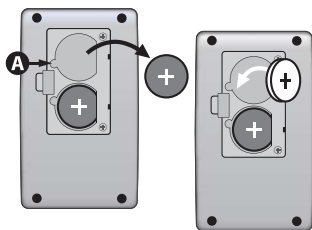
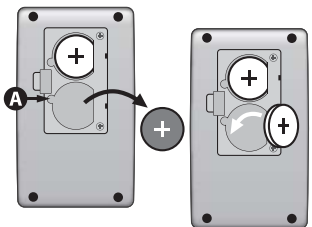battery door. Be careful not to misplace the battery door.

[2] Remove and Install 1st Battery: To remove the used battery, use a non-metallic tool at point A to pop out the battery. Install the new battery with the positive (+) sign facing up towards you.

Used: (+)   New: (+)

[3] Remove and Install 2nd Battery: Repeat previous step for the 2nd battery.

[4] Close Battery Door: Angle the battery door back onto the meter and swing down until it snaps gently into place. Make sure that the battery door is completely closed before using.

55

CHAPTER 19 Meter Specifications

Assay Method: Dynamic Electrochemistry

Maximum Altitude: 10,000 ft

Calibration: Plasma equivalent

Coding: No Code

Control Solution Storage Temperature: 36 °F to 86 °F (2 °C to 30 °C)

Sample: Whole blood, capillary

Sample Size: 0.5 microliters

Average Glucose Test Time: 6 seconds

Measurement Units: mg/dL

Alarms: 6 programmable alarms

Result Range: 20 to 600 mg/dL

Hematocrit: 20% to 60%

Operating Relative Humidity: Up to 90%

Operating Temperature: 50 °F to 104 °F (10 °C to 40 °C)

Memory: 300 blood glucose and control solution test results with date, time, and averaging (14, 30, 90 days and time-of-day)

Power Source: Two CR2032, 3 volt, lithium batteries, replaceable

Automatic Shutoff: 3 minutes after last user action

Size: Width 1.7" x Length 3.0" x Height 0.6"
(4.4 cm x 7.7 cm x 1.6 cm)

Test Strip Storage Temperature: 46 °F to 86 °F (8 °C to 30 °C)

Weight: 46.9 g (including batteries)

Equipment not suitable for use in the presence of flammable mixtures.

This meter complies with the applicable standards for Electro-magnetic Compatibility; however it is not recommended that it be used in the presence of strong electromagnetic fields. When using this meter, keep away from sources of electromagnetic disturbances such as electric motors or radio transmitting equipment. This meter should not affect the normal operation of other devices. If this does occur, provide more distance between the meter and the affected device.

CHAPTER 20 Warranty

Warranty Terms

We offer customers who buy ("You") a new blood glucose meter (defined as "Meter") within the United States the following purchase protections.

We extend a limited lifetime warranty to customers who buy a new Meter. Under this limited warranty, Your new Meter is covered for the period of ownership as long as it has not been modified, altered, or misused. Under this warranty we will replace, free of charge, Your Meter if it is defective in material or workmanship. In order to have Your Meter replaced under this warranty, please call customer service.

No other warranties, express or implied, are made. We will not be liable for any incidental or consequential damages You may incur. This warranty gives You specific legal rights, and You may also have other rights that vary from state to state. We may discontinue this program at any time without notice.