American
Health
Gate

# Blood Glucose Monitoring System
# AHG-2285

Instruction Manual


Number: 1205249101
Effective Date: 2024-04-26

IVD CE 0197

# Blood Glucose Monitoring System

The AHG blood glucose monitoring system is designed for easy testing of blood glucose and helps you to keep your blood glucose under control. The AHG system is fully compliant with the new EN ISO 15197:2015 International Standard.

Read this Instruction Manual carefully before you use your meter system. This manual will help you to become familiar with using the AHG blood glucose monitoring system and get reliable test results. Please keep your Instruction Manual in a safe place; you may want to refer to it in the future.

## Principle and Intended Use

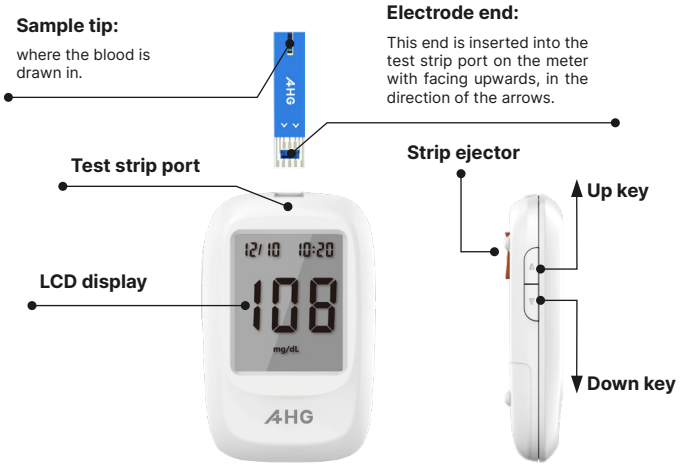
The AHG system AHG-2285 is designed to quantitatively measure the glucose concentration in fresh capillary whole blood. The AHG blood glucose test is based on the measurement of an electric current caused by the reaction of glucose with the reagents on the electrode of the test strip. The blood sample is drawn into the tip of the test strip through capillary action. Glucose in the sample then reacts with an enzyme and mediator, generating electrons, which produce a current that is proportional to the glucose concentration in the sample. After the reaction time, the glucose concentration in the sample is displayed. The meter is calibrated to display plasma-like concentration results.

The AHG system is intended for external use ( *in vitro* diagnostic use) at home, by people with diabetes and by health care professionals in a clinical setting, as an aid to monitor the effectiveness of diabetes control. The system should not be used for the diagnosis of diabetes.

## Table of Contents

## Your Meter System Overview

The AHG Blood Glucose Meter and AHG Blood Glucose Test Strip.




## Your Meter Display

The picture below shows all the symbols that appear on your meter display. To make sure the display is working properly, with the meter off, press and hold ▼ button for 2 seconds to see the complete display. All display segments will appear for 3 seconds. If you need more than 3 seconds to check the display, shut down and restart. All of the segments should be clear and exactly like the picture below. If not, contact your local distributor for help.

| Icon | What it Means |
|---|---|
| 88/88 | The top left area on the screen indicates the date. |
| 88:88 | The top right area on the screen indicates the time. |
| d/m/d | Date, month format. |
|  | The meter failed to sync with the Smartphone. |
| M | Memory. |
| A | Indicates the average value. |
|  | Indicates a low battery or it needs to be replaced. |
|  | Indicates the alarms have been set. |
| 88.8 | The center area on the display, this shows test results or error codes. |
|  | Indicates the system is ready to do a test. |
| Ketone? | Ketone warning. |
|  | Pre-meal marker. |
|  | Post-meal marker. |
|  | Control test result. |
| mg/dL mmol/L | Test results are displayed as mg/dL or mmol/L according to local government regulations |
|  | Indicates the temperature is not suitable for testing. |
| Hypo | Indicates that a low-test result may cause hypoglycaemia. |

***Notes:***

*Your AHG meter is pre-set with a beep sound function, the meter will beep when:*

- *turn on the meter.*
- *insert the test strip and it is ready for blood or control solution to be applied.*
- *sufficient blood or control solution is drawn into the test strip.*
- *the test is complete.*
- *it is time to perform a test if you set the test alarms.*
- *if any error occurs during operation.*

## Meter Use and Precautions

• The meter is pre-set to display blood glucose concentration in either millimoles per liter (mmol/L) or milligrams per deciliter (mg/dL) depending on which unit of measurement is standard in your country. This unit of measurement cannot be adjusted.
• Do not get water or other liquids inside the meter.
• Keep the strip port area clean.
• Keep your meter dry and avoid exposing it to extremes of temperature or humidity. Do not leave it in your car.
• Do not drop the meter or get it wet. If you do drop the meter or get it wet, check the meter by running a quality control test. Refer to **Quality Control Test** for instructions.
• Do not take the meter apart. Taking the meter apart will void the warranty.
• Refer to the **Caring for Your Meter** section for details on cleaning the meter.
• Keep the meter and all associated parts out of reach of children.

***Note:*** *Follow proper precautions and all local regulations when disposing of the meter and used batteries.*

## All Glucose systems preventive warnings with regard to EMC

1. This meter is tested for immunity to electrostatic discharge as specified in IEC 61000-4-2. However, use of this meter in a dry environment, especially if synthetic materials are present (synthetic clothing, carpets, etc.) may cause damaging static discharges that may cause erroneous results.

2. This instrument complies with the emission and immunity requirements described in EN61326-1 and EN61326-2-6. Do not use this meter in close proximity to sources of strong electromagnetic radiation as it may interfere with proper operation of the meter.

3. For professional use, the electromagnetic environment should be evaluated prior to operation of this meter.

## Important Safety Information

- Always keep the test strips in the original vial. Tightly close the vial immediately after you have removed the test strip.
- Do not use the meter if it is dropping into water or splashing water on to it.
- Wash and dry your hands well before and after testing.
- Test strips and lancets are for single use only.
- Do not drop blood directly on the flat surface of the test strip.
- Check the expiry dates and discard dates on your test strips vial label and control solution bottle label.
- Use only AHG test strips with your AHG system.
- Use only AHG control solution with your AHG system.
- Following a self-test always consult your diabetes health care professional before making any adjustments to your medication, diet or activity routines.
- If the system is used in a manner not specified by the manufacturer, the protection provided by the system will be impaired.

**⚠ Potential Biohazard**

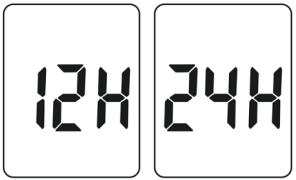
Healthcare professionals or persons using this system on multiple patients should follow the infection control procedure approved by their facility. All products or objects, which come in contact with human blood, even after cleaning, should be handled as if capable of transmitting viral disease.

Before you use your meter for the first time or if you change your meter battery, you must check and update your meter settings.

## Set the Time and Date

### 1- Enter the setting mode and set the clock

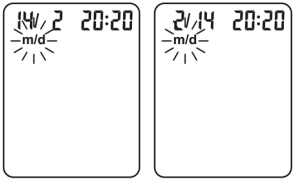
When the meter is off, press the ▼ button for 2 seconds to enter the meter setup mode. The meter will automatically enter the setup mode when turned on for the first time by any method.




Set the clock for either 12 or 24 hour mode. Press the ▲ button to switch between the two settings. Then press the ▼ button to save your choice and start setting the year, month and date.

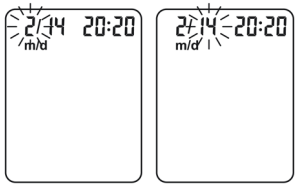
### 2. Set the Month and Date Format

The date icon will now flash, on the display. Press ▲ button to select the format you wish (d/m for date/month format or m/d for month/date format). Press ▼ button to set.



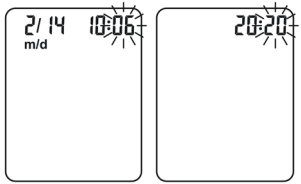
### 3. Set the Date

The year will appear at the top of the display. Press the ▲ button until the correct year is displayed. Once you have selected the correct year, press the ▼ button to save your choice and start setting the month. Press the ▲ button until the correct month is displayed. Then press the ▼ button to save your choice and start setting the date. Press the ▲ button until the correct date is displayed. Then press the ▼ button to save your choice and start setting the time.



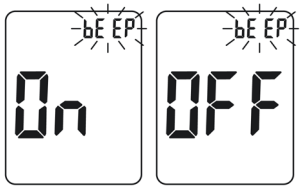

### 4. Set the Time

The hour will appear at the top of the display. Adjust the hour with the ▲ button until the correct hour is displayed. Press the ▼ button to save your choice and set the minutes. Press the ▲ button to change to the correct minute. Press the ▼ button to save your choice and move to set the audio feature.



## 5. Set the Audio Feature

After setting the time, the **bEEP** will now flash. Press the ▲ button to set ON or OFF, press ▼ button to save the audio setting.




## 6. Set the Test Alarm

Your meter is pre-set with the test alarm function to “OFF”. You can set up to 5 test alarms per day. If you turn 5 test alarms on (A1, A2, A3, A4 and A5), your meter is pre-set with the following times for your convenience. You can adjust each time to suit your needs.

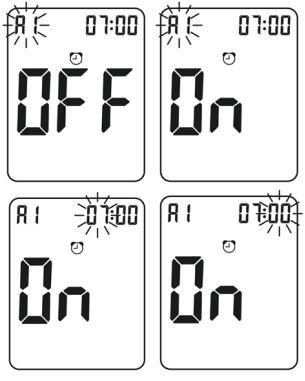
A1 7:00 A2 9:00 A3 14:00 A4 18:00 A5 22:00

***Note:*** *Follow proper precautions and all local regulations when disposing of the meter and used battery.*

After you set the audio feature/ talking feature, the ⏰ and the word “OFF” will be displayed, symbol “A1” flashes. Press ▲ button to turn the alarm function on or off, and press ▼ button to confirm.

If you select “On”, the hour flashes, “A1” and the ⏰ remains on the display. Press ▲ button to select the hour. Press ▼ button to set.

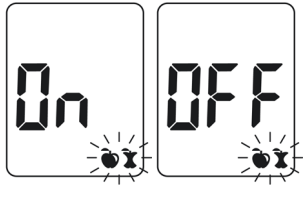
The minute flashes, press ▲ button to select 00, 15, 30, or 45. These are the only choices. Press ▼ button to set minutes.




The next alarm “A2” flashes on the display with and “OFF” You can set a second alarm by pressing ▲ button to turn on the second alarm. Do the same procedures to set the rest of the alarms.

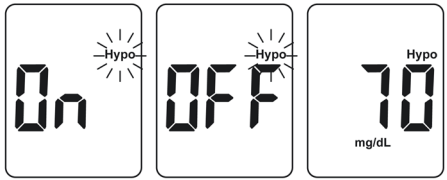
## 7. Set the Meal Marker

After setting the test alarm functions, the symbols of will now flash, along with word “On” on the display. Press the ▲ button to turn the meal marker function on or off, press ▼ button to set.



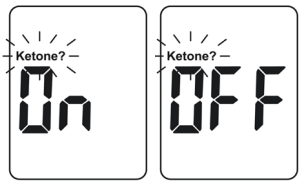
## 8. Set the Hypoglycemia (Hypo) Warning

After setting the meal marker, the **Hypo** flashes on the display along with "On" on the display. Press ▲ button to turning the Hypo alarm function on or off, press ▼ button to set. If you select the hypo alarm "on", the display shows 70 mg/dL with the symbol of "Hypo" on the display, Press ▲ button to select the level you want, press ▼ button to set.




## 9. Set the Ketone Warning

After the hypo warning setting is completed, the **Ketone?** symbol now will flash, along with word "On" on the display. Press ▲ button to turn the Ketone Warning on or off, press ▼ button to set.




After setting Ketone Warning, the screen will show all symbols which you have set before. Press ▼ button for 2 seconds and the meter will be turned off.

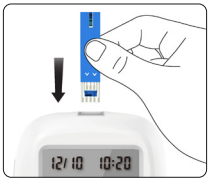
Set up your meter correctly and have all the materials you will need ready before you begin the testing. This including your AHG meter, the AHG test strips and AHG lancing device with AHG lancets.

## Preparing the Test Strip

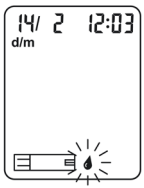
1. Wash and dry your hands well before testing.

2. Remove a test strip from the test strip vial. Tightly close the vial cap immediately after you have removed the test strip.

3. Insert the test strip into the meter in the direction of the arrows. The meter turns on after a beep.




4. A symbol with a test strip with a flashing blood drop will appear letting you know the meter is ready to test.




***Note:***

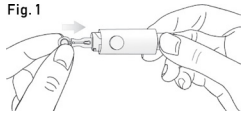
*Check the expiration and discard dates on the test strip vial. All expiration dates are printed in Year-Month format. 2025-01 indicates January, 2025. Your AHG test strips have 6 months shelf life after you first open the test strip vial. Write the discard date on the vial label when you first open it. Make sure the test strip does not appear damaged. Prior to testing, wipe the test site with an alcohol swab or soapy water. Use warm water wash hands to increase blood flow if necessary. Then dry your hands and the test site thoroughly. Make sure there is no cream or lotion on the test site.*

## Preparing the Lancing Device

### INSERTINGTHE LANCET

Insert a new lancet into the lancet holder and push down firmly until it is fully inserted. Remove the protective cap by twisting it away from the body of the lancet (fig. 1).

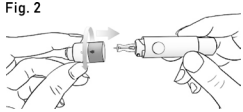
Fig. 1



### REPLACINGTHE DEPTH ADJUSTER

Replace the depth adjuster assembly onto the AHG lancing device by twisting it on (fig. 2).

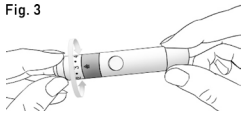
Fig. 2



### SETTING THE PENETRATION DEPTH

Adjust the penetration depth as necessary. Hold the white depth adjuster collar between thumb and forefinger and twist until the required depth setting lines up with the penetration depth indicator.
'1' provides the minimum penetration depth and,
'6' provides the maximum penetration depth.
"." provides the middle penetration depth between two depths.
It is recommended you start at the minimum depth (fig. 3).

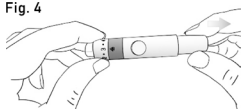
Fig. 3



### PREPARING TO TAKE THE SAMPLE

Hold the main body of AHG lancing device with one hand and the device sleeve with the other and pull the two apart until you hear a click. This primes the device ready for use (fig. 4).

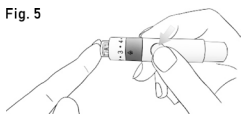
Fig. 4



### OBTAINING THE SAMPLE

Hold the front end of AHG lancing device firmly against the sample site (fig.5)
Press the release button and then remove AHG lancing device from the sampling site.
Wait for a moment to allow blood to flow freely to the site of penetration. Massage the site if necessary, from the palm to the fingertip, with the hand held downwards,until a sufficient blood sample is acquired.

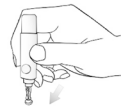
Fig. 5



### COVERING THE NEEDLE TIP

Twist off the depth adjuster assembly to remove it from the AHG lancing device. Push the lancet until needle tip is totally covered by protective cap. Don't touch the exposed lancet needle (fig .6)

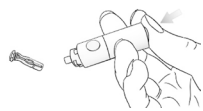
Fig. 6



### EJECTING THE LANCET

Push the sleeve until eject lancet .
It is important to discard the used lancet carefully in a suitable sharps container. Do not reuse lancet. Replace the depth adjuster assembly onto the AHG lancing device by twisting it on.(fig. 7)

Fig. 7

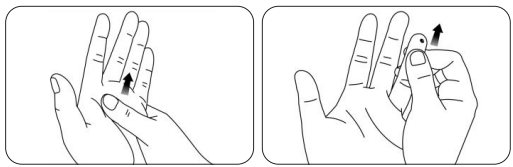


⚠ **Potential Biohazard**

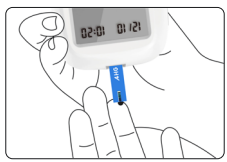
Always dispose of the used lancet properly to prevent injury or contamination to others.

## Getting a Blood Drop and Testing

1. Gently massage from the base of the finger to the tip of the finger to obtain the required blood volume. Avoid smearing the blood drop. Lance on the side of the fingertip to help reduce any pain. Test immediately after a good blood drop has formed.

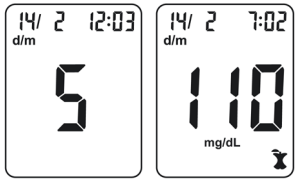


2. Immediately touch the tip of the test strip to the drop of blood. The blood is drawn into the test strip through the tip. Make sure that the blood sample has fully filled the sample tip on the test strip. Hold the tip of the test strip in the blood drop until the meter beeps.



***Note:*** *If the blood sample does not fill the check window, do not add a second drop. Discard the test strip and start over with a new test strip.*

3. The meter counts down 5 seconds and your result appears on the display after a beep. The test result will automatically be stored in the meter memory. Please do not touch the test strip during the countdown as this may result in an error.



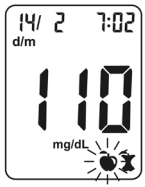

## Marking Blood Glucose Results

You can discard the used test strip by sliding the strip ejector forwards. The meter turns off automatically after a beep.

You can set your meter to use meal marker options by using on. Your meter will display two markers after you test your blood.

Pre-meal marker: marks a test result that was taken before the meal.

Post-meal marker: marks a test result that was taken after the meal.




After testing and your blood glucose result is displayed, pre-meal marker and post-meal marker appear on the meter display, and pre-meal marker flashes, press ▲ button to select the marker you want to set, press ▼ button to confirm.

If you do not want to mark the test result, simply remove the used test strip to automatically save the test result in the meter memory without the marker. The meter will turn off automatically. Dispose of the used test strip and lancet properly.

## Discard the Used Test Strip

You can discard the used test strip by sliding the strip ejector forwards. The meter turns off automatically after a beep.

⚠ **Potential Biohazard**

Dispose of the used test strips as medical waste.

## Expected Diabetes Control Goal:

Blood glucose values will vary depending on food intake, medication dosages, health, stress, or exercise. Ideally, to control the glucose level as close to a normal (non- diabetic) blood glucose level as you safely can.
The American Diabetes Association suggests the following targets for most non-pregnant adults with diabetes. More or less stringent glycemic goals may be appropriate for each individual. In real life, consult your health care professional for the target value that is appropriate for you.

Expected blood glucose levels for most non-pregnant adults with diabetes:1

| Time of Day | Range, mg/dL | Range, mmol/L |
|---|---|---|
| Fasting and before Meals | 80 – 130 | 4.4 – 7.2 |
| 2 hours after meal | Less than 180 | Less than 10 |

Reference:
1. ADA Clinical Practice Recommendations, 2014.

***Warning:***

- *If your blood glucose reading is under 50 mg/dL (2.8 mmol/L) or you see LO (less than 10 mg/dL (0.6 mmol/L)) on the meter display, contact your health care professional as soon as possible.*
- *If you test result is above 250 mg/dL (13.9 mmol/L) or you see HI (greater than 600 mg/dL (33.3 mmol/L)) on the meter display, contact your health health care professional as soon as possible.*
- *Do not change your medication therapy based on AHG test result before consult your health care professional.*

## Questionable or Inconsistent Results:

If your blood glucose result does not match how you feel, please:

- Check the expiration date and the discard date of the test strip. Make sure that the test strip vial has not been opened for more than 6 months.
- Confirm the temperature in which you are testing is between 5 and 45°C (41-113°F).
- Make sure that the test strip vial has been tightly capped.
- Make sure the test strip has been stored in cool, dry place.
- Make sure the test strip was used immediately after removing from the test strip vial.
- Make sure that you followed the test procedure correctly.
- Perform a control solution test (See **Performing a Control Test** for instructions).

After checking all of the conditions listed above, repeat the test with a new test strip. If you are still unsure of the problem, please contact please contact your local dealer.

⚠ ***Caution:***

- *Do not use the lancet if the safety tab is missing or loose when you take the lancet out of the bag.*
- *Do not use the lancet if the needle is bent.*
- *Take care whenever the lancet needle is exposed.*
- *Never share lancets or the lancing device with other people in order to prevent possible infections.*
- *In order to reduce the risk of infection from prior use of the instrument, always use a new, sterile lancet. Do not reuse lancets.*
- *Avoid getting the lancing device or lancets dirty with hand lotion, oils, dirt or debris.*

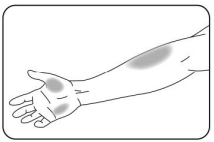
## Alternative Site Testing

Blood samples for glucose testing may be taken from sites other than your fingertips. Alternative site testing using blood from the forearm or palm may give glucose results that significantly differ from fingertip blood. Differences occur when blood glucose levels are changing rapidly, such as after a meal, after insulin, and during or after exercise.

The forearm and palm areas have less nerve endings than the fingertip. You may find obtaining blood from these sites less painful than from the fingertip. The procedure for forearm and palm sampling is different. You need the clear cap to draw blood from these sites.

***Note:*** *if you use a lancing device with clear cap, please follow the manufacturer's instructions.*

1. Insert a new lancet into the lancet holder and push down firmly until it is fully inserted. Remove the protective cap by twisting it away from the body of the lancet.
2. Screw the clear cap onto the lancing device.
3. Choose a puncture site on the forearm or palm. Select a soft and fleshy area of the forearm or palm that is clean and dry, away from bone, and free of visible veins and hair. To bring fresh blood to the surface of the puncture site, massage the puncture site vigorously for a few seconds until you feel it getting warm.



4. Place the lancing device against the puncture site. Press and hold the clear cap against the puncture site for a few seconds. Press the release button of the lancing device, but do not immediately lift the lancing device from the puncture site. Continue to hold the lancing device against the puncture site until you can confirm a sufficient blood sample has formed.

***Notes:***

- *Consult your doctor or health care professional to determine if alternative site setting is right for you.*
- *Alternative site testing is not recommended if you have hypoglycemic unawareness (you do not recognize the symptoms of or cannot tell when you have low blood glucose). Please consult with your doctor or health care professional if you have a low blood glucose level.*
- *Select a soft, fleshy area of skin that is free from hair, moles and visible veins for alternative site testing. Wash the site with soap and warm water then rinse and dry thoroughly.*
- *Never share lancets or the lancing device with other people in order to prevent possible infections.*

## Testing with Control Solution

### Why Perform Control Tests

Performing a control test confirms you know that your meter and test strips are working properly and will give reliable test results.

You should perform a control test when:

- At least once a week
- When you open a new box of test strips
- When you want to check the meter and test strips
- If your test strips were stored in extreme temperature or humidity
- If you dropped the meter
- If your test result does not match with how you fee

## About the Control Solutions

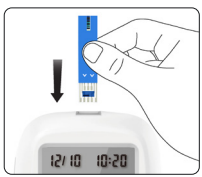
- Only use AHG Control Solutions (Low, Normal or High) to practice on the system.
- Your meter automatically recognises the control solution.
- The control solution results are not included in the average value calculation.
- All expiration dates are printed in Year-Month format. 2025-01 indicates January, 2025.
- Do not use a control solution that is past the expiry date or discard date (the control solution will expire 6 months after the bottle is opened for the first time).
- Shake the bottle well before use.
- Close the bottle tightly after use.

## Performing a Control Test

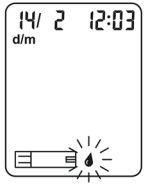
1. Remove test strip from the test strip vial. Tightly close the vial cap immediately after you have removed the test strip.

***Note:*** *Check the expiration and discard dates of the test strips. Do not use the expired test strip.*

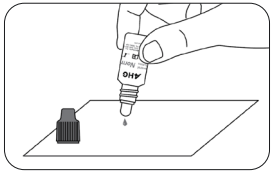
2. Insert a test strip into the meter in the direction of the arrows.



3. The meter turns on after a beep. An image of a test strip with a flashing blood drop will appear letting you know the meter is ready to test.

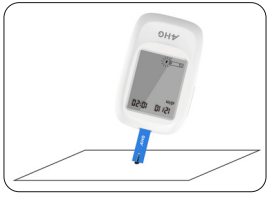



4. Shake the control solution bottle thoroughly. Squeeze the control solution bottle gently and discard the first drop. Squeeze out a second small drop on a clean nonabsorbent surface.



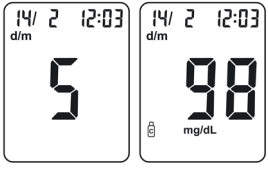
***Note:*** *Do not apply control solution to the test strip directly from the bottle.*

5. Immediately touch the tip of the test strip to the drop of control solution. The control solution is pulled into the test strip through the strip tip.



***Note:*** *If the control solution sample does not fill the check window, do not add a second drop. Discard the test strip and start over with a new test strip.*

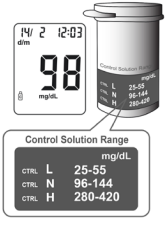
6 . Hold the test strip in the drop of control solution until the meter beeps, and then you will see the meter count down on the screen and followed with your control test result after a beep.




***Note:*** *The meter will automatically recognize and mark the control result for you. Control results are not included in the 7, 14 and 30 day average calculation.*

## Understand Your Control Test Result

Compare your control test result with the ranges printed on the test strip vial label.




***Notes:***

*If your control test result is out of range:*

- *Check the expiry dates and discard dates of the test strip and control solution. Make sure that the test strip vial has not been opened for more than 6 months and the control solution bottle has not been opened for more than 6 months. Discard any expired test strips or control solution.*
- *Confirm the temperature in which you are testing is between 15 and 40°C (59-104°F).*
- *Make sure that the test strip vial and the control solution bottle have been tightly capped.*
- *Make sure the test strip was used immediately after removing it from the test strip vial.*
- *Make sure the control solution was mixed well.*
- *Confirm that you are using AHG brand control solution.*
- *Make sure that you followed the test procedure correctly.*

After checking all of the conditions listed above, repeat the control solution test with a new test strip. If your results still fall out of the range indicated on the test strip vial label, your meter or test strips may not be working properly. **DO NOT** use the system to test blood. Contact your distributor for help.

To turn your meter off, just remove the test strip. Dispose of the used test strips as medical waste. The result will be automatically marked and stored in the meter memory. Control results will be not included in your blood glucose averages.

## Using the Meter Memory

Your meter automatically stores up to 1000 results with the time and date. Test results are stored from the newest to the oldest. The meter will also calculate the average values of records from the last 7, 14 and 30 days.

***Notes:***

- *If there are already 1000 records in memory, the oldest record will be erased to make room for a new one.*
- *It is very important to set the correct time and date in the meter, please make sure the time and date are correct after you change your battery.*
- *Control results are not included in the 7, 14- and 30 day average calculation.*

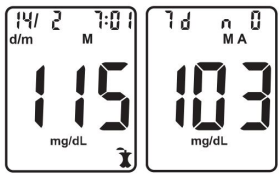
1) When your meter is off, press ▼ button to turn the meter on, after a beep, a symbol of a test strip flashes on the display, press ▼ button again to enter memory mode. The most recent value and the word "M" will appear on the display.

If you are using the meter for the first time, the meter display will show three dashed lines (---), the letter "M" and the unit of measure. This shows that no data have been stored in memory.

2) The date and time will be displayed together with the results stored in memory.

3) Press the ▲ button to go through the stored records.

4) Press the ▼ button to view the data averages. The letter "A" will appear on the screen. If you do not wish to view your average glucose measurements, you can press the ▼ button again to turn off the display.



Proper maintenance is recommended for best results.

## Changing the Batteries

Batteries should be replaced when the meter continually displays or the meter shows then turns off.

1. Turn off your meter before changing the batteries.
2. Press firmly on the batteries cover and slide in the direction of the arrow.


***Note:***

*After you change the batteries, your meter prompts you to confirm the meter's time and date settings. All the test results are saved in the memory.*

3. Lift out the old batteries.
4. Place the new batteries under the prongs and into the batteries compartment.
5. Slide the batteries cover back into place, lining up with the open slots, and close firmly.

***Warning:***

*Keep batteries away from children. The batteries are poisonous. If swallowed, immediately contact your doctor or poison control center. Discard battery according to your local environmental regulations.*

## Caring for Your Glucose Monitoring System

### Blood Glucose Meter

Your AHG Blood Glucose Meter does not require special maintenance or cleaning. A damp cloth and a mild detergent solution can be used to wipe the outside of the meter. Take care to avoid getting liquids, dirt, blood or control solution into the meter through the strip or data ports. It is recommended that you store the meter in the carrying case after each use.
The AHG Blood Glucose Meter is a precision electronic instrument. Please handle it with care.

### Lancing Device

Clean the lancing device using a soft cloth with mild soap and warm water as required. Use 70% Isopropyl Alcohol to disinfect the lancing device. Carefully dry the lancing device. **Do not immerse the lancing device in liquid.**

## Troubleshooting Guide

| What You See | What It Means | What You Should Do |
|---|---|---|
|  | Add sample or control solution before the flashing blood drop appears. | Discard the test strip and repeat the test with a new test strip. Add sample or control solution after you see the flashing blood drop on the display. |
|  | The meter is sensing the use of a used or contaminated test strip. | Discard the test strip and repeat the test with a new test strip. Wait until you see the flashing blood drop on the display before testing. |
|  | Incorrect test strip. | Discard the test strip and repeat the test with a new test strip. Make sure that you are using an AHG test strip. |
|  | Incorrect sample. | Discard the test strip and repeat the test with a new test strip. Make sure that you are using blood sample or AHG control solution. |
|  | Temperature out of range. | Move to an area that is within the operating temperature for the meter. Let the meter adjust to this temperature for 20 minutes before performing a test. |
|   | Potential hardware issue. | Take out battery and restart the meter. If the problem continues, contact your local dealer. |
|  | Insufficient sample. | Repeat test and apply enough sample to fill check window of the test strip. |
|  | Indicates a low battery. | Replace new batteries. |
|  | Blood Glucose test result is above 600 mg/dL (33.3 mmol/L). | Wash, dry your hands and the test site well, then repeat the test using a new test strip. If your result still flashes HI, contact your healthcare professional as soon as possible. |
|  | Test result is below 10 mg/dL (0.6 mmol/L). | Repeat the test using a new test strip. If your result still flashes LO, contact your doctor or health care professional as soon as possible. |

## Symptoms of High or Low Blood Glucose

You can better understand your test results by being aware of the symptoms of high or low blood glucose. According to the American Diabetes Association, some of the most common symptoms are:

**Low blood glucose (Hypoglycaemia):**

- shakiness
- sweating
- fast heartbeat
- blurred vision
- confusion
- fainting
- irritability
- seizure
- extreme hunger
- dizziness

**High blood glucose (Hyperglycaemia):**

- frequent urination
- excessive thirst
- blurred vision
- increased fatigue
- hunger

**Ketones (ketoacidosis):**

- shortness of breath
- nausea or vomiting
- very dry mouth

## Limitations

The AHG meter, AHG test strips and control solution have been designed, tested and proven to work together effectively to provide accurate blood glucose measurments. Do not use components from other brands.

- Fresh capillary blood may be collected into test tubes containing sodium heparin or lithium heparin if the blood is used within 10 minutes. Do not use sodium fluoride/oxalate or other anticoagulants or preservatives.
- Use only with whole blood. Do not use with serum or plasma samples.
- Very high (above 70%) and very low (below 20%) haematocrit levels can cause false results. Talk to your doctor or health care professional to find out your haematocrit level.
- Abnormally high levels of vitamin C and other reducing substances will produce false high blood glucose measurements.
- The system is tested to accurately read the measurement of glucose in whole blood within the range of 10 to 600 mg/dL (0.6-33.3 mmol/L).
- Fatty substances (triglycerides up to 3,000 mg/dL or cholesterol up to 500 mg/dL) have no major effect on blood glucose test results.
- The AHG Blood Glucose Monitoring System has been tested and shown to work properly up to 10,000ft (3,048 meters).
- Severely ill persons should not run the glucose test with the AHG Blood Glucose Monitoring System.
- Patients using oxygen therapy are not recommended for testing with AHG Blood Glucose Monitoring System.
- Blood samples from patients in shock, with severe dehydration, or from patients in a hyperosmolar state (with or without ketosis) have not been tested and are not recommended for testing with AHG Blood Glucose Monitoring System.
- Dispose of blood samples and materials carefully. Treat all blood samples as if they are infectious materials. Follow proper precautions and obey all local regulations when disposing of materials.

## System Specifications:

| Feature | Specification |
|---|---|
| Measurement range | 10 to 600 mg/dL (0.6-33.3 mmol/L) |
| Test Measurement | Plasma-equivalent |
| Sample | Fresh capillary whole blood |
| Sample volume | About 0.5 µL |
| Test time | 5 seconds |
| Power source | Two AAA LR03 1.5V batteries |
| Battery life | 12 months or approximately 1,000 tests |
| Glucose units of measurement | The meter is pre-set to either millimoles per litre (mmol/L) or milligrams per decilitre (mg/dL) depending on the standard of your country |
| Memory | Up to 1000 records with date and time |
| Automatic shutoff | 2 minutes after last action |
| Dimensions | 93.5 mm × 60.5 mm × 20 mm |
| Display size | 47mm × 37 mm |
| Weight | Approximately 67.4g (with battery installed) |
| Operating temperature | 5-45°C |
| Operating relative humidity | 10-90% (non-condensing) |
| Hematocrit range | 20-70% |

## Index of Symbols

These symbols may appear on the packaging and in the instructions for the AHG system.

| Symbols | Explanation |
|---|---|
|  | Consult instructions for use |
|  | For in vitro diagnostic use only |
|  | Manufacturer |
|  | Temperature limitations |
|  | Contains sufficient for <n> tests |
|  | Use by |
|  | Lot Number |
|  | Authorized Representative |
|  | Sterilized using irradiation |
|  | Control range |
|  | Catalogue number |
|  | Model number |
|  | Do not re-use |
|  | Caution, consult accompanying documents |
|  | Dispose of items according to local relevant laws regarding disposal and recycling |
|  | Use by 6 months from the opening |
|  | Series number |
|  | Keep away from sunlight and heat |

## Warranty

Please complete the warranty card that came with this product and mail it to:

American Health Gate LLC
2815 Elliott Avenue, Seattle, Washington 98121 USA

AHG Customer Support: +1 888 881 3479

www.americanhealthgate.com

AHG warrants that the products are free of manufacturing defects in workmanship and material for a lifetime period from the date of the original purchase. Repair or replacement is the Manufacturer's or Authorized Representative's in the local country only responsibility and the purchaser's only remedy under the above warranty. The warranty becomes void if repairs are undertaken by unauthorized persons and if original AHG parts are not used.

This warranty does not cover or apply to:

- Damage to the product due to improper use, mishandling, and abuse;
- Product not used in accordance with AHG instructions or recommendations;
- Product not assembled or installed according to manufacturer's instructions;
- Damage to the outside shield;
- Damage that has occurred during shipping;
- Serial number/QC seal removed, defaced or altered;

**AHG SHALL NOT BE LIABLE FOR LOSS OF USE OR ANY OTHER INCIDENTAL, CONSEQUENTIAL OR INDIRECT COSTS, EXPENSES OR DAMAGES.**

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