

## User Manual

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PGUAA-0000616 REV0 2025-02

### 01 Important Information: Read This First!

For optimum safety and benefits, please read the entire manual contents before using the system.

#### Intended purpose:

The emVia Pro Blood Glucose Monitoring System is intended for use outside the body (*in vitro* diagnostic use). The system is intended for self-testing as an aid in monitoring the effectiveness of diabetes control for individuals with diabetes mellitus or prediabetes to quantitatively measure glucose in fresh capillary whole blood from the fingertip. In the clinical and hospital setting, venous, arterial, and neonatal whole blood may be used to measure blood glucose when drawn by trained healthcare professionals. The system shall not be used for the diagnosis of or screening for diabetes.

#### Meaning of symbols used:

	In vitro diagnostic medical device
	Caution
	Biological risks
	Do not re-use
	Consult instructions for use
	WEEE (waste electrical and electronic equipment)
	Temperature limit
	Manufacturer
	Importer
	Batch code
	Direct current
	Device for self-testing

- Glucose in blood samples reacts with the chemical in the test strip to produce a small electrical current. The emVia Pro Blood Glucose Meter detects this electrical current and measures the amount of glucose in the blood sample.
- The emVia Pro Blood Glucose Meter is designed to minimise code related errors in monitoring by using the no-coding function.
- The emVia Pro Blood Glucose Meter should only be used with emVia Pro Blood Glucose Test Strips.

- An abnormally high or low red blood cell count (hematocrit level over 70 % or below 15 %) may produce inaccurate results.
- If your blood glucose test result is below 60 mg/dL or above 240 mg/dL, consult a healthcare professional immediately.
- Inaccurate blood glucose results may occur in severely hypotensive individuals or patients in shock. Inaccurate low blood glucose results may occur for individuals experiencing a hyperglycemic-hypersomolar state, with or without ketosis.
- Critically ill patients should not be tested with blood glucose meters.

If you need assistance, please contact your authorised sales representative or visit [embecta.com](http://embecta.com) for more information.

### 02 Specifications

#### Product specifications

Measurement range	10-600 mg/dL
Sample size	Minimum 0.5 $\mu$ L
Test time	5 seconds
Sample type	<ul style="list-style-type: none"> <li>Fresh capillary whole blood (fingertip)</li> <li>Venous whole blood*</li> <li>Arterial whole blood*</li> <li>Neonatal capillary whole blood (heelstick)*</li> </ul> <small>* healthcare professional only</small>
Model	GMOIYAA
Calibration	Plasma-equivalent
Assay method	Electrochemical
Battery life	2,000 tests
Power	One 3.0 V lithium battery (disposable, type CR2032)
Memory	1,000 test results
Size	95 x 49.6 x 17.9 mm
Weight	52 g (with battery)

### 03 System Components

The SKU numbers vary depending on the emVia Pro Blood Glucose Monitoring System's components. Check the SKU number indicated on the product box to identify the components in the table below.

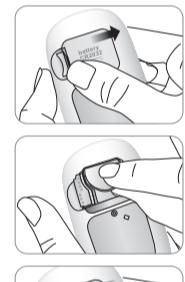
SKU	Components
328670	<ul style="list-style-type: none"> <li>emVia Pro Blood Glucose Meter (GMOIYAA)</li> <li>Battery (1)</li> <li>Instructions for Use</li> <li>Carrying Case</li> </ul>
328668	<ul style="list-style-type: none"> <li>emVia Pro Blood Glucose Meter (GMOIYAA)</li> <li>emVia Pro Blood Glucose Test Strips (10)</li> <li>Battery (1)</li> <li>Instructions for Use</li> <li>Carrying Case</li> </ul>

#### Note

- Check all the components after opening the emVia Pro Blood Glucose Monitoring System package.
- The following items can be purchased separately. Please contact your authorised sales representative or the retailer you purchased the products.
  - emVia Pro Blood Glucose Test Strips (50, 25 and 10 strips)
  - emVia Glucose Control Solutions

### 04 Inserting or Replacing the Battery

The emVia Pro Blood Glucose Meter uses one 3.0 V lithium battery. Before using the meter, check the battery compartment and insert a battery if empty. When the symbol appears on the display while the meter is in use, the battery should be replaced as soon as possible. The test results may not be saved if the battery runs out.



#### Step 1

Make sure the meter is turned off. Push the cover in the direction of the arrow to open the battery compartment.

#### Step 2

Remove the used battery. Slip your index finger under the battery to lift and pull out as shown. Insert a new battery with the + side facing up and make sure the battery is inserted firmly.

#### Step 3

Place the cover on the battery compartment. Push it down until you hear the tab click into place.

#### Note

Removing the meter battery will not affect your stored results. However you may need to reset your meter settings. See page 12.

### 05 Caring for Your System

Use a soft cloth or tissue to wipe the meter exterior. If necessary, dip the soft cloth or tissue in a small amount of alcohol. Do not use organic solvents such as benzene or acetone, or household and industrial cleaners that may cause irreparable damage to the meter.

#### Caution

- Do not expose the meter to direct sunlight, heat, or excessive humidity for an extended period of time. It is recommended to store and use the test system indoors.
- Do not let dirt, dust, blood, or water enter into the meter's test strip port.
- Do not drop the meter or submit it to strong shock.
- Do not try to fix or alter the meter in any way.
- Store all the meter components in the carrying case to prevent loss and help keep the meter clean.
- Avoid getting any liquid or moisture in the test strip vial or foil packet. This can affect the test strips and cause inaccurate test results.

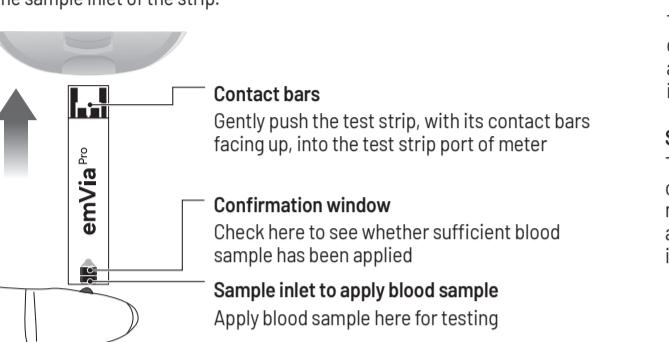
- Do not apply samples other than capillary, venous, neonatal, or arterial whole blood or control solution to the test strip.
- Store the meter in a cool and dry place between 0-50 °C.
- In the event of any serious incident with the emVia Pro Blood Glucose Monitoring System, please report to manufacturer and the competent authority of the Member State.

- Fresh capillary whole blood (fingertip)
- Venous whole blood\*
- Arterial whole blood\*
- Neonatal capillary whole blood (heelstick)\*

\* healthcare professional only

### 06 emVia Pro Blood Glucose Test Strip

The emVia Pro Blood Glucose Monitoring System measures blood glucose quickly and accurately. It automatically absorbs the small blood sample applied to the sample inlet of the strip.



#### Warning

- The emVia Pro Blood Glucose Test Strips should be used with fresh capillary whole blood samples immediately after drawn, or with neonatal heelstick capillary, venous, and arterial whole blood samples within 30 minutes after drawn. Venous, neonatal, and arterial whole blood samples should be drawn by healthcare professionals. Besides whole blood samples, serum or plasma samples can affect test results.
- Venous and arterial whole blood specimens containing the anticoagulants EDTA and Heparin are acceptable. Iodoacetate or fluoride/oxalate should not be used.
- Heel stick neonatal capillary whole blood specimens containing the anticoagulants EDTA and Heparin are acceptable. The system is not for testing neonatal cord blood samples.
- Do not reuse test strips.
- Use all of the test strips within the expiration date printed on the test strip box and vial label or foil packet.
- Dispose of test strips past the expiration or discard date immediately. Using test strips past their expiration or discard date can produce incorrect test results.
- Test strips in both unopened and opened vials, and unopened foil packet can be used up until the expiration date printed on the test strip box and vial label or foil packet if the test strips are used and stored according to its storage and handling methods.
- Store the vial or foil packet in a cool and dry place between 1-30 °C and 10-90 % relative humidity. Do not freeze.
- Keep the vial or foil packet of test strips away from direct sunlight or heat.
- Store unused test strips in their original vial or foil packet to avoid damage or contamination.
- Store test strips only in their original vial.
- Push the cap down on the vial immediately after taking out a test strip to fully close the vial and maintain air tightness.
- Use the test strip immediately after taking it out of the vial or foil packet.
- Avoid getting any liquid or moisture in the test strip vial or foil packet. This can affect the test strips and cause inaccurate test results.
- Do not apply samples other than capillary, venous, neonatal, or arterial whole blood or control solution to the test strip.
- Handle test strips only with clean and dry hands.
- Do not bend, cut, or alter test strips in any way.

#### Warning

Do not force a test strip into the meter. Gently push it into the meter's test strip port.

Discard used test strips safely in appropriate containers according to the regulations applicable in your country.

For detailed storage and usage information, refer to the test strip package insert.

#### Limitations

Altitude of up to 3,000 m above sea level has no effect on the performance of the test strip.

Interferences: Acetaminophen, ascorbic acid (vitamin C), uric acid and other reducing substances (when occurring in normal blood or normal therapeutic concentrations) do not significantly affect results. However, abnormally high concentrations in blood may cause inaccurate high results.

Do not use during or within 24 hours of receiving xylose absorption testing as it may cause inaccurate results.

Avoid getting any liquid or moisture in the test strip vial or foil packet. This can affect the test strips and cause inaccurate test results.

Do not apply samples other than capillary, venous, neonatal, or arterial whole blood or control solution to the test strip.

Store the meter in a cool and dry place between 0-50 °C.

In the event of any serious incident with the emVia Pro Blood Glucose Monitoring System, please report to manufacturer and the competent authority of the Member State.

Fresh capillary whole blood (fingertip)

Venous whole blood\*

Arterial whole blood\*

Neonatal capillary whole blood (heelstick)\*

\* healthcare professional only

Healthcare professional only

Glucose dehydrogenase (FAD-dependent): 3.1 units

Hexaammineruthenium(III) chloride: 7.8  $\mu$ g

Thiophene acetate: 0.7  $\mu$ g

Chemical composition

Each emVia Pro Blood Glucose Test Strip contains the following reagents:

Glucose dehydrogenase (FAD-dependent): 3.1 units

Hexaammineruthenium(III) chloride: 7.8  $\mu$ g

Thiophene acetate: 0.7  $\mu$ g

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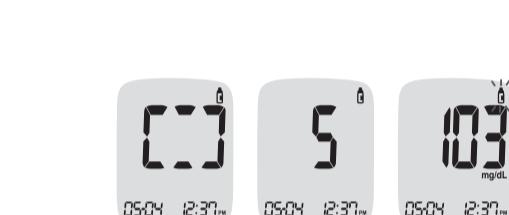
**Step 2 Activating Control Solution Test Mode**  
Press and hold **►** for 3 seconds to activate the Control Solution Test Mode. This will also flag the control solution test result. To undo the control solution flag, press and hold **►** for another 3 seconds.

**Caution**  
If control solution testing is performed without the control solution flag, an Er8 message may appear or the results may fall outside the range printed on the test strip vial.

**Step 3 Applying Control Solution to Test Strip**  
Shake the bottle before each test. Remove the cap and squeeze the bottle to discard the first drop. Then wipe the tip with a clean tissue or cloth.  
Dispense a drop of control solution onto a clean non-absorbent surface. It helps to squeeze a drop onto the top of the cap as shown.  
After the **●** symbol appears on the display, apply the solution to the sample inlet of the test strip until the meter beeps. Make sure the confirmation window fills completely.

**Caution**  
The meter may switch off if the control solution sample is not applied within 2 minutes of the **●** symbol appearing on the screen. If the meter turns off, remove the strip, reinser, and start from step 1.

**Step 4 Waiting for the Result**  
The display segments will rotate clockwise and a test result will appear after the meter counts down from 5 to 1.  
The test result with control solution flag is stored in the memory but not included in the averages.



**Step 5 Comparing the Result**  
Compare the result displayed on the meter to the range printed on the test strip vial or box. The result should fall within the range.

**Caution**  
The range printed on the test strip vial or box is for the Control Solution only. It has nothing to do with your blood glucose levels.

**Note**  
Please request from your Healthcare Provider in your region.

**Comparing the Control Solution Test Results**  
The test result of each control solution should be within the range printed on the label of the test strip vial or on the test strip box.  
Repeat the control solution test if the test result falls outside of the range. Out of range results may occur in following situations:

Situations	Do This
• When the control solutions are not used with their corresponding test strips.	Repeat the control solution test by referring to the Note on page 17.
• When the control solution bottle was not shaken well.	
• When the meter, test strip, or the control solution were exposed to high or low temperatures.	
• When the first drop of the control solution was not discarded or the tip of the bottle was not wiped clean.	
• When the meter is not functioning properly.	

Situations	Do This
• When the control solution is past the expiration date printed on the bottle.	Discard the used control solution and repeat the test using a new bottle of control solution.
• When the control solution is past its discard date.	
• When the control solution is contaminated.	

If results continue to fall outside the range, the test strip and meter may not be working properly. Do not use your system and contact sales representative.

## 12 Using the Lancing Device

You will need a lancing device in order to collect a blood sample. Before testing, prepare a lancet and a lancing device according to the instructions enclosed with the products. emVia Pro Blood Glucose Monitoring System does not come with lancing and lancing device, you may use any brand of lancing and lancing devices that are registered in your region. Please follow the instruction supplied together with the purchased lancing and lancing device or you may follow the below guide as reference.  
• The lancing device is for use by a single user only and should not be shared with anyone.  
• Use a soft cloth or tissue to wipe the lancing device. If necessary, a small amount of alcohol on a soft cloth or tissue may be used.

**Caution**  
To avoid infection when drawing a sample, do not use a lancet more than once, and:  
• Do not use a lancet that has been used by others.  
• Always use a new sterile lancet.  
• Keep the lancing device clean.

**Note**  
• Repeated puncturing at the same sample site may cause pain or skin calluses (thick dark skin). Choose a different site each time you test.  
• The skin depth to get blood samples will vary for various people at different sample sites. The lancing device's adjustable tip allows the best depth of skin penetration to get an adequate sample size.

## 13 Blood Glucose Testing

### Preparing the Meter and Test Strip

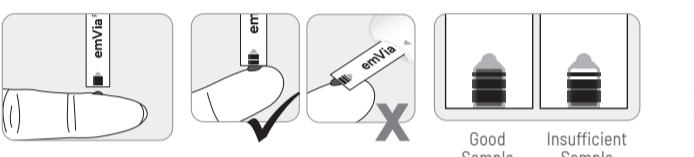
**Step 1**  
Insert a test strip with the contact bars facing upwards into the meter's test strip port. Push the strip in gently until the meter beeps. Be careful not to bend the test strip. The **●** symbol will appear on the screen.



### Applying Blood Sample

**Step 2**  
Obtain a blood sample using the lancing device. Place the device against the pad of the finger. The best puncture sites are on the middle or ring fingers. Press the release button. Remove the device from the finger.  
Wait a few seconds for a blood drop to form. You need a minimum volume of 0.5 microliter for blood glucose test with emVia Pro test strip (actual size of 0.5 µl: **●**).

**Step 3**  
After the **●** symbol appears on the screen, apply the blood sample to the sample inlet of the test strip till the meter beeps. If the confirmation window is not filled in time because of abnormal viscosity (thickness and stickiness) or insufficient volume, the Er4 message may appear. It is recommended to place the test strip vertically into the blood sample site as shown below.



### Caution

Do not allow any foreign substances, such as dirt, blood, or water, enter into the meter. The meter may be damaged or may malfunction. Follow the warning information provided below to prevent possible damage to the meter.

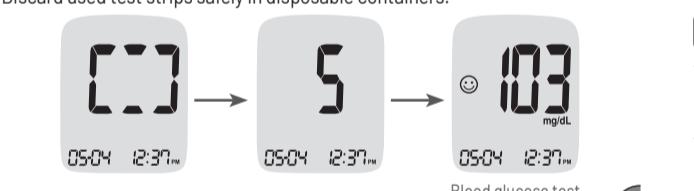
- Do not apply the blood sample directly to the test strip port.
- Do not apply the blood sample to the test strip while holding the meter in a way that the tip of the test strip faces upwards.
- The blood sample may run down the surface of the test strip and flow into the test strip port.
- Do not store your meter in unsanitary or contaminated sites.

### Note

The meter may switch off if the blood sample is not applied within 2 minutes of the **●** symbol appearing on the screen. If the meter turns off, remove the strip and reinser, and start from Step 2.

### Step 4

At this time, the display segments will rotate clockwise while the blood is going in. Blood glucose test results will appear after the meter counts down from 5 to 1. The result will be automatically stored in the meter's memory. If the test strip is removed after the test result is displayed, the meter will automatically switch off after 3 seconds.



### Step 5

You can attach a flag to a blood glucose test result to indicate particular situations while the strip is still in the meter. When the result is displayed right after a test, press **◀** or **▶** to select a pre-meal flag (**●**), a post-meal flag (**●**) or a fasting flag (**●**). When you remove the test strip while the desired flag is blinking, the test result is stored with the flag.

If you do not want to add any flags on the test result, remove the strip after the test result is displayed.



### Discarding Used Lancets

emVia Pro Blood Glucose Monitoring System does not come with lancet and lancing device that are registered in your region. Please follow the instruction supplied together with the purchased lancet and lancing device or you may follow the below guidance as reference.

• The lancing device is for use by a single user only and should not be shared with anyone.  
• Use a soft cloth or tissue to wipe the lancing device. If necessary, a small amount of alcohol on a soft cloth or tissue may be used.

### Caution

To avoid infection when drawing a sample, do not use a lancet more than once, and:

- Do not use a lancet that has been used by others.
- Always use a new sterile lancet.
- Keep the lancing device clean.

### Note

• Repeated puncturing at the same sample site may cause pain or skin calluses (thick dark skin). Choose a different site each time you test.

• The skin depth to get blood samples will vary for various people at different sample sites. The lancing device's adjustable tip allows the best depth of skin penetration to get an adequate sample size.

## 14 HI and Lo Messages

### Preparing the Meter and Test Strip

**Step 1**  
Insert a test strip with the contact bars facing upwards into the meter's test strip port. Push the strip in gently until the meter beeps. Be careful not to bend the test strip. The **●** symbol will appear on the screen.

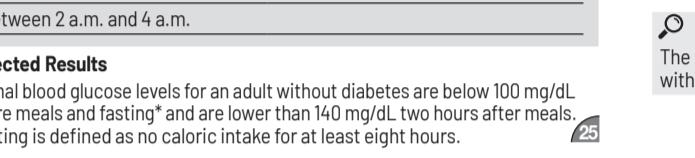


### Applying Blood Sample

**Step 2**  
Obtain a blood sample using the lancing device. Place the device against the pad of the finger. The best puncture sites are on the middle or ring fingers. Press the release button. Remove the device from the finger.  
Wait a few seconds for a blood drop to form. You need a minimum volume of 0.5 microliter for blood glucose test with emVia Pro test strip (actual size of 0.5 µl: **●**).

### Step 3

After the **●** symbol appears on the screen, apply the blood sample to the sample inlet of the test strip till the meter beeps. If the confirmation window is not filled in time because of abnormal viscosity (thickness and stickiness) or insufficient volume, the Er4 message may appear. It is recommended to place the test strip vertically into the blood sample site as shown below.



### Expected Results

Normal blood glucose levels for an adult without diabetes are below 100 mg/dL before meals and fasting\* and are lower than 140 mg/dL two hours after meals.

\*Fasting is defined as no caloric intake for at least eight hours.

### Unexpected Results

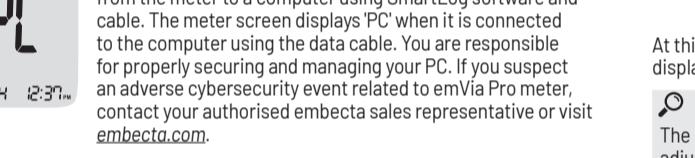
Low or high blood glucose readings can indicate a potentially serious medical condition. If your results are unusually high or low, or do not match the way you feel, repeat the test with a new test strip. If your reading is inconsistent with your symptoms or your result is lower than 60 mg/dL or higher than 240 mg/dL, contact your healthcare professional.

### Reference

American Diabetes Association (Standards of Medical Care in Diabetes - 2021. Diabetes Care), January 2021, vol. 44(Supplement 1): S15-S33.

Four types of alarms can be set in the emVia Pro meter: one post-meal alert (PP2 alert) and three time set alarms (alarm 1-3). The PP2 alert goes off 2 hours after setting the alert. The alarms ring for 15 seconds and can be silenced by pressing any button or by inserting a test strip.

### Setting the Post-meal Alert (PP2 alert)



### Step 1 Turning the PP2 alert On

Without inserting a test strip, press and hold **◀** for 3 seconds to set the post-meal alert.

'PP2', bell (**●**) symbol and 'On' will appear on the screen. The screen will then automatically change to the memory recall mode.

At this time, bell (**●**) symbol, indicating that the PP2 alert has been set, will be displayed on the screen.

### Step 2 Turning the PP2 alert OFF

To turn off the PP2 alert, press and hold **◀** for 3 seconds.

'PP2', bell (**●**) symbol and 'Off' will appear on the screen. Then the screen will change automatically to the memory recall mode without bell (**●**) symbol displayed.

The test result does not match the way you feel.

• Repeat the test after inserting a new test strip.

• Check the expiration or discard date of the test strip.

• Perform control solution test.

### Step 3 Viewing Pre-meal Averages

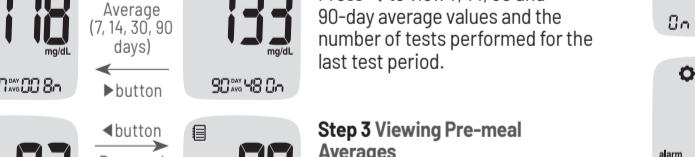
Repeatedly press **◀** to view 1, 7, 14, 30 and 90-day average values and the number of tests performed for the last test period.

### Step 4 Viewing Post-meal Averages

Press **◀** to view 1, 7, 14, 30 and 90-day average values and the number of tests performed post-meals with the **●** symbol for the last test period.

### Step 5 Viewing Fasting Averages

Press **◀** to view 1, 7, 14, 30 and 90-day average values and the number of tests performed during fasting with the **●** symbol for the last test period.



### Step 6

Use **◀** to scroll back through the averages seen previously.

### Step 7

Press **S** to turn off the meter.

### Step 8

The control solution test results saved with the **●** symbol are not included in the averages.

### Viewing Test Results Stored in Memory

Press any button to turn the meter on.

The 1 day average value and the number of the test results saved within the current day will be displayed at the bottom of the screen.

### Step 9

Use **◀** to scroll through the test results, starting from the most recent and ending with the oldest.

Press **◀** to return to the results seen previously.

### Step 10

After checking the stored test results, press **S** to turn off the meter.

### Step 11

Please contact your authorised sales representative if such messages are displayed even though you do not have hyperglycemia or hypoglycemia.

### Step 12

Please contact your authorised sales representative if such messages are displayed even though you do not have hyperglycemia or hypoglycemia.

### Step 13

Please contact your authorised sales representative if such messages are displayed even though you do not have hyperglycemia or hypoglycemia.

### Step 14

Please contact your authorised sales representative if such messages are displayed even though you do not have hyperglycemia or hypoglycemia.

### Step 15

Please contact your authorised sales representative if such messages are displayed even though you do not have hyperglycemia or hypoglycemia.

### Step 16

Please contact your authorised sales representative if such messages are displayed even though you do not have hyperglycemia or hypoglycemia.

### Step 17

Please contact your authorised sales representative if such messages