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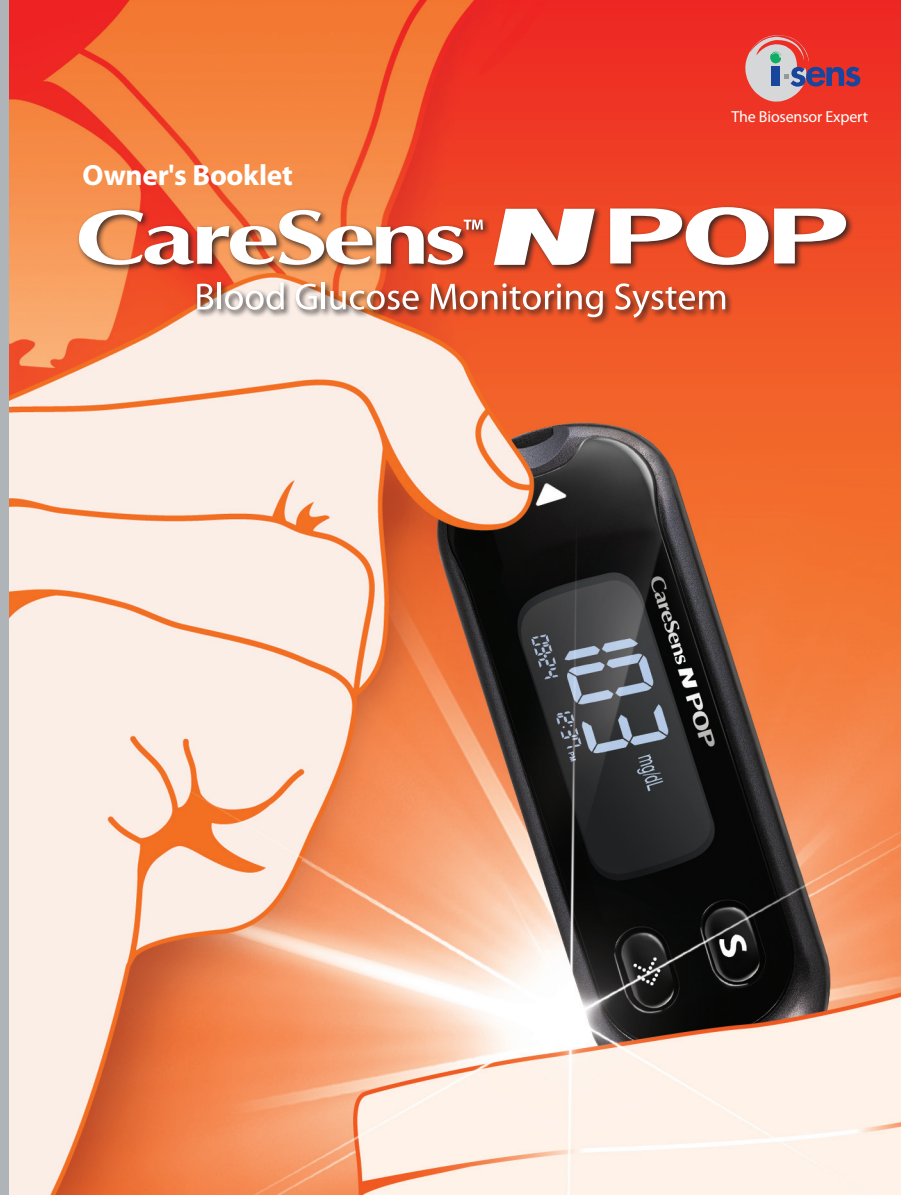


Medical Technology Promedt
Consulting GmbH, Altenhofstrasse 80,
D-66386 St. Ingbert, Germany

Owner's Booklet

CareSens™ NPOP

Blood Glucose Monitoring System



Welcome to the CareSens N POP Blood Glucose Monitoring System

Thank you for choosing the CareSens N POP Blood Glucose Monitoring System. The system provides you with safe, fast, and convenient blood glucose *in vitro* (i.e., outside the body) diagnostic monitoring. You can obtain accurate results in just 5 seconds with a small (0.5 μ L) blood sample.

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Important Information:Read this First!

To receive safe and optimum system benefits, please read the entire manual contents before using the system. Please note the following instructions:

Intended use:

CareSens N POP Blood Glucose Monitoring System is used for the quantitative measurement of the glucose level in capillary whole blood as an aid in monitoring diabetes management effectively at home or in clinical settings. CareSens N POP Blood Glucose Monitoring System should be used only for self-testing outside the body (*in vitro* diagnostic use only). CareSens N POP Blood Glucose Monitoring System should not be used for the diagnosis of diabetes or for testing newborns. Testing sites include the traditional fingertip testing along with alternate sites testing on forearm, palm, thigh and calf.

The following chart explains the symbols you'll find in the CareSens N POP owner's booklet, product packaging, and product inserts.

	For <i>in vitro</i> diagnostic use
	This product fulfills the requirements for Directive 98/79/EC on <i>in vitro</i> diagnostic medical devices
	Cautions for safety and optimum product use
	Use by (unopened or opened test strip vial)
	Do not discard this product with other household-type waste
	Do not reuse
	Consult instruction for use
	Temperature limitations
	Authorized representative
	Batch code
	Manufacturer
	Serial number

Important Information

- The CareSens N POP blood glucose monitoring system is intended for self-testing outside the body (*in vitro* diagnostic use).
- The glucose in the blood sample mixes with special chemicals on the test strip to produce a small electrical current. The CareSens N POP meter detects this electrical current and measures the amount of glucose in the blood sample.
- The CareSens N POP blood glucose meter is designed to minimize code related errors in monitoring by using the no-coding function.
- The CareSens N POP blood glucose meter should be used only with the CareSens N strip.
- An abnormally high or low red blood cell count (hematocrit level over 60% or below 20%) may produce inaccurate results.
- If your test result is below 60 mg/dL (3.3 mmol/L) or above 240 mg/dL (13.3 mmol/L), consult a healthcare professional immediately.

If you need assistance, please contact your authorized i-SENS sales representative or visit www.i-sens.com for more information.

• Product specifications

Reported result range	20-600 mg/dL (1.1-33.3 mmol/L)
Sample size	Minimum 0.5 µL
Test time	5 seconds
Sample type	Fresh capillary whole blood
Calibration	Plasma-equivalent
Assay method	Electrochemical
Battery life	1,000 tests
Power	Two 3.0 V lithium batteries (disposable, type CR2032)
Memory	500 test results
Size	95 X 33 X 19 mm
Weight	41.2 g (with batteries)

• Operating ranges

Temperature	10-40°C (50-104°F)
Relative humidity	10-90%
Hematocrit	20-60%

CareSens N POP BGM System includes the following items:

- * CareSens N POP Blood Glucose Meter
- * Owner's Booklet
- * Quick Reference Guide
- * Carrying Case
- * Batteries

CareSens N POP BGM System may include the following items:

- * CareSens N Blood Glucose Test Strips
- * Lancets
- * Lancing Device
- * Logbook

- Check all the components after opening the CareSens N POP blood glucose monitoring system package. The exact contents are listed on the main box.
- The data transmission cable can be ordered separately. Please contact your authorized i-SENS sales representative.

Inserting or Replacing the Batteries

The CareSens N POP meter uses two 3.0 V lithium batteries. Before using the meter, check the battery compartment and insert batteries if empty. When the **+** **-** symbol appears on the display while the meter is in use, the batteries should be replaced as soon as possible. The test results may not be saved if the batteries run out completely.

Step 1

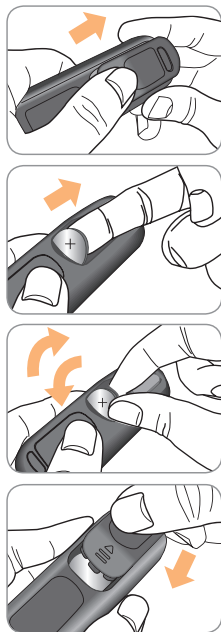
Make sure the meter is turned off. Press down and slide off the battery compartment cover.

Step 2

Remove the used batteries one at a time. Slip your index finger under the battery to lift and pull out as shown. Insert two new batteries with the + side facing up and make sure the batteries are inserted firmly in place.

Step 3

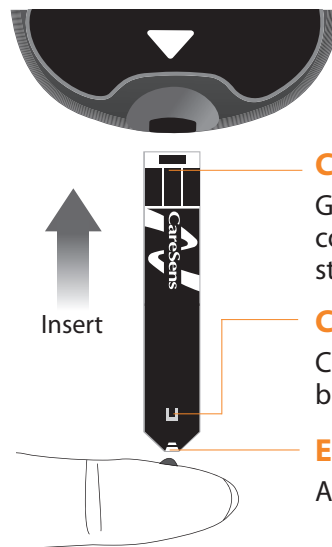
Place the cover on the battery compartment. Push it down until you hear the tab click into place.



Note: Removing the meter batteries will not affect your stored results. However you may need to reset your meter settings. See page 13.

CareSens N Blood Glucose Test Strip

The CareSens N POP blood glucose monitoring system measures blood glucose quickly and accurately. It automatically absorbs the small blood sample applied to the narrow edge of the strip.



Contact bars

Gently push the test strip, with its contact bars facing up, into the test strip port of meter

Confirmation window

Check here to see whether sufficient blood sample has been applied

Edge to apply blood sample

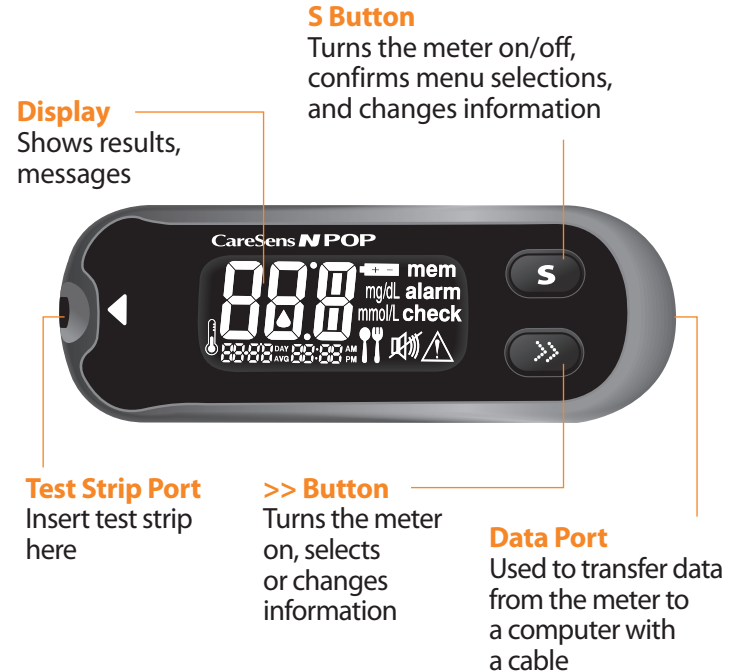
Apply blood sample here for testing

CareSens N POP Blood Glucose Meter

Warning!

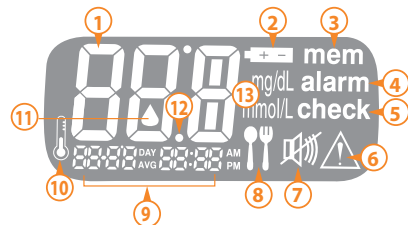
- The CareSens N test strip should be used only with fresh capillary whole blood samples.
- Do not reuse test strips.
- Do not use test strips past the expiration date.
- Test strips in new, unopened vials and test strips in vials that have been opened can be used up until the expiration date printed on the test strip box and vial label if the test strips are used and stored according to its storage and handling methods.
- Store test strips in a cool and dry place at a temperature of 1-30°C (34-86°F).
- Keep test strips away from direct sunlight or heat and do not freeze.
- Store test strips only in their original vial.
- Close the vial tightly after taking out a test strip for testing and use the strip immediately.
- Handle test strips only with clean and dry hands.
- Do not bend, cut, or alter test strips in any way.
- For detailed storage and usage information, refer to the CareSens N test strip package insert.

Caution: Keep the meter and testing supplies away from young children.



Note: The cable for data transmission to PC can be ordered separately. Please contact your authorized i-SENS sales representative.

CareSens N POP Blood Glucose Meter Display



- ① **Test results** : test results displaying panel
- ② **Battery symbol** : indicates meter battery is running low and needs to be replaced
- ③ **mem** : appears when test results stored in the memory are displayed
- ④ **alarm** : appears when the post-meal alarm has been set
- ⑤ **check** : appears when test results have not been saved
- ⑥ **Hypoglycemia symbol** : appears when the test result is below the hypoglycemic level
- ⑦ **Sound symbol** : appears only when the sound is set to OFF
- ⑧ **Post-meal test flag** : appears during post-meal testing and when post-meal test results are displayed
- ⑨ **Month / Day / Hour / Minute**
- ⑩ **Temperature symbol** : displays recorded temperature when blood glucose levels are tested
- ⑪ **Blood insertion symbol** : indicates meter is ready for the application of a drop of blood or control solution
- ⑫ **Decimal point** : appears when the blood glucose measuring unit is set to mmol/L
- ⑬ **mg/dL , mmol/L** : unit for measuring blood glucose

Note: The unit on the meter may be fixed for your meter, so that you will not be able to change the unit of measurement.

Setting up Your System

Press and hold the **S** button for 3 seconds to switch on the meter. After all settings are finished, press and hold the **S** button for 3 seconds to turn off the meter. Press **>>** to reach the accurate value. Press and hold **>>** to scroll faster.

Adjusting the Date and Time

Step 1 Entering the SET Mode

Press and hold the **S** button for 3 seconds to switch on the meter. After all the segments flash across the screen, the 'SET' character will be displayed on the screen.



Press the **S** button again to enter the year setting mode.

Step 2 Setting the Year

Press and release **>>** to adjust until the correct year appears. After setting the year, press the **S** button to confirm your selection and enter the month setting mode.



Step 3 Setting the Month

A number indicating the month will be blinking on the left corner of the screen. Press **>>** until the correct month appears. Press the **S** button to confirm your selection and enter the date setting mode.



Step 4 Setting the Date

Press **>>** until the screen displays the correct day. Press the **S** button to confirm the day and enter the time setting mode.



Step 5 Setting the Time Format

The meter can be set in the AM/PM (12-hour) or the 24-hour clock format. Press **>>** to select a format. The AM•PM symbol is not displayed in the 24-hour format. After selecting the format press the **S** button to enter the hour setting mode.



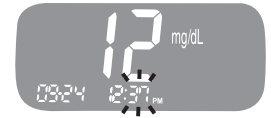
Step 6 Setting the Hour

Press **>>** until the correct hour appears. After the hour is set, press the **S** button to enter the minute setting mode.



Step 7 Setting the Minute

Press **>>** until the correct minute appears. After setting the minute, press the **S** button to enter the sound setting mode.



Setting the Sound On/OFF

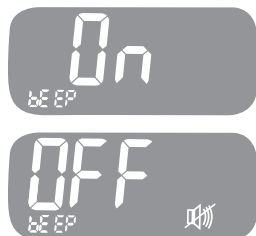
Step 8


On pressing **>>**, the screen will display the On or OFF. Press the **S** button to confirm the selection.

The meter will beep in the following instances, if set to On.

- When you push the **S** button or **>>** button to turn on the meter
- When the test strip is inserted in the meter
- When the blood sample is absorbed into the test strip and the test starts
- When the test result is displayed
- When you push the **>>** button to set the post-meal (PP2) alarm
- When it is time for a preset blood glucose test

If the sound is set to OFF, none of the sound functions will work.



Note: Only when the sound is set to OFF,  symbol appears on the display.

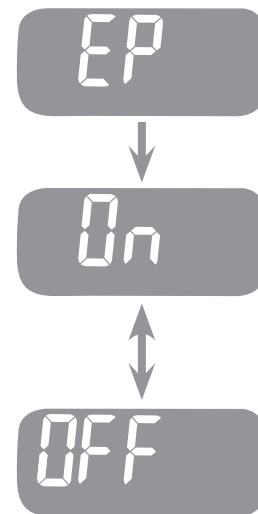
Turn on the Strip Expiration Date Indicator

Step 9

This mode allows you to turn the strip expiration date indicator on or off.

When "EP" blinks on the screen, press **>>**. The screen will display "On" or "OFF". Press the **S** button to confirm the setting and move to the next mode.

This mode turns the function on or off only. See page 40 to set the strip expiration date.



Note: If the pre-set expiration date expires, the meter will display the following. For example, in the case when the expiration date is set to October of 2014, the meter displays "EP" at the start of November of 2014.






Checking the System



Turn on the Hypoglycemia (HYPO) Indicator


Step 10

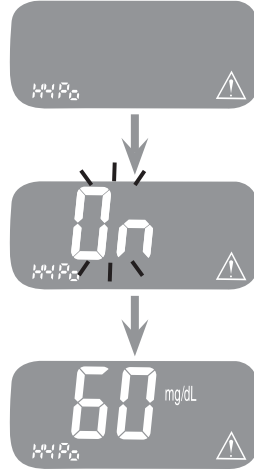
In this mode the hypoglycemia (possible low blood sugar) level can be selected.

The 'HYPO' character will be displayed with hypoglycemia symbol .

On pressing the  button, the screen will display the On or OFF. Press the  button when 'On' appears to enter the setting.

Press the  button until the proper hypoglycemia level between 20 and 60 mg/dL (1.1-3.3 mmol/L) appears. Then, press the  button to confirm the level.

If you do not want to set the indicator, press the  button while the screen displays 'no'. Then, the screen will return to step 2. See page 13.



Note: If the test result is lower than the pre-set hypoglycemia level, the meter will display the following.



Caution: Before the HYPO indicator is set, ask your doctor or diabetes nurse to help you decide what your hypoglycemia level will be.



You may check your meter and test strips using the CareSens Control Solution (control A and/or B). The CareSens Control Solution contains a known amount of glucose and is used to check that the meter and the test strips are working properly. The test strip vials have CareSens Control Solution ranges printed on their labels. Compare the result displayed on the meter to the CareSens Control Solution range printed on the test strip vial. Before using a new meter or a new vial of test strips, you may conduct a control solution test following the procedure on pages 20-21.

Notes:

- Use only the CareSens Control Solution (available for purchase separately).
- Check the expiration dates printed on the bottle. When you first open a control solution bottle, record the discard date (date opened plus three (3) months) in the space provided on the label.
- Make sure your meter, test strips, and control solution are at room temperature before testing. Control solution tests must be done at room temperature (20-25°C/68-77°F).
- Before using the control solution, shake the bottle, discard the first few drops and wipe the tip clean.
- Close the control solution bottle tightly and store at a temperature of 8-30°C (46-86°F).

You may do a control solution test:

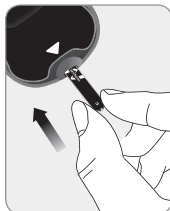
- When you want to practice the test procedure using the control solution instead of blood
- When using the meter for the first time

- Whenever you open a new vial of test strips
- If the meter or test strips do not function properly
- If your symptoms are inconsistent with the blood glucose test results and you feel that the meter or test strips are not working properly
- If you drop or damage the meter

Control Solution Testing

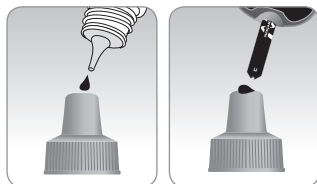
Step 1

Insert a test strip into the meter's test strip port, with the contact bars facing upwards. Gently push the test strip into the port until the meter beeps. Be careful not to bend the strip while pushing it in. The ▲ symbol will be displayed on the screen.



Step 2

Shake the CareSens Control Solution 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. After the ▲ symbol appears on the display, apply the solution to the narrow edge of the test strip until the meter beeps. Make sure the confirmation window fills completely.



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, reinsert, and start from step 1.

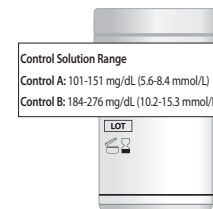
Step 3

A test result will appear after the meter counts down from 5 to 1. After your control solution result appears on the display, press >> for 3 seconds till the 'check' symbol appears on the display. When the 'check' symbol is displayed, the result is not stored in the meter's memory and is not included in the averages.



Step 4

Compare the result displayed on the meter to the range printed on the test strip vial. The result should fall within that range. Used strips should be discarded safely in appropriate containers.



Caution:

The range printed on the test strip vial is for the CareSens Control Solution only. It does not have any connection to your blood glucose level.

Note:

The CareSens Control Solution can be purchased separately. Please contact your authorized i-SENS sales representative.

Using the Lancing Device

Comparing the Control Solution Test Results

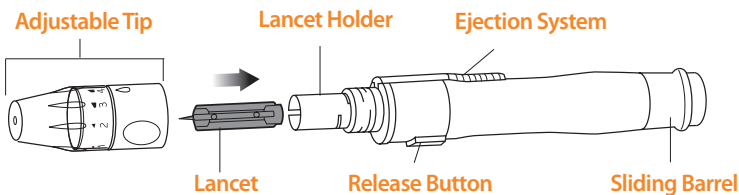
The test result of each control solution should be within the range printed on the label of the test strip vial. Repeat the control solution test if the test result falls outside of this range. Out of range results may occur due to the following factors:

Situations	Actions
<ul style="list-style-type: none">• 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.	Repeat the control solution test by referring to the "Notes" on page 19.
<ul style="list-style-type: none">• When the control solution is past the expiration date printed on the bottle,• When the control solution is past its discard date (the date the bottle was opened plus three (3) months),• When the control solution is contaminated.	Discard the used control solution and repeat the test using a new bottle of control solution.

If results continue to fall outside the range printed on the test strip vial, the CareSens N Test Strip and Meter may not be working properly. Do not use your system and contact i-SENS sales representative.

You will need a lancing device in order to collect a blood sample.

You may use the lancing device contained in the CareSens N POP Blood Glucose Monitoring System or any other medically approved lancing device.



- The lancing device may not be used by more than one individual. Ensure the lancing device is not shared among different users.
- 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, use a lancet only one time, 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 hard skin). Choose a different site each time you test.

Preparing the Lancing Device

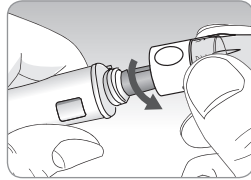
Step 1

Wash hands and fingertip sample site with soap and warm water. Rinse and dry thoroughly.



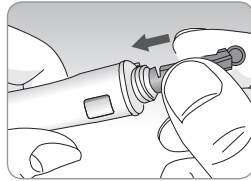
Step 2

Unscrew and remove the lancing device tip.



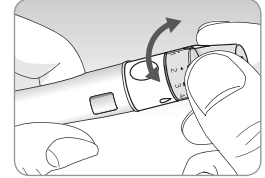
Step 3

Firmly insert a new lancet into the lancet holder. Hold the lancet firmly. Gently twist to pull off protective disk. Save disk to recap lancet after use. Replace lancing device tip.



Step 4

Select a desired depth of one-to-five (1-5) on lancing device's adjustable tip. Rotate ring to align desired number with arrow. The initial setting of three (3) is recommended.

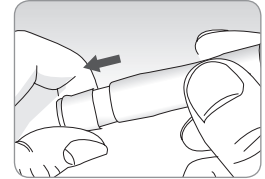


Note:

1 = least penetration of lancet into the skin.
5 = most penetration of lancet into the skin.

Step 5


To cock the lancing device, hold the tip in one hand. Pull the sliding barrel with the other hand. The lancing device is cocked when you feel a click.

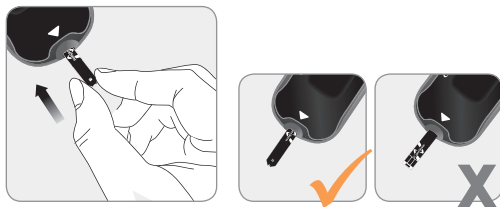


Note: The skin depth to retrieve samples will vary for various people at different sample sites. The lancing device's adjustable tip allows the best depth of skin penetration for an adequate sample size. The initial setting of three (3) is recommended.




Preparing the Meter and Test Strip

Step 6






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.



Marking Post-meal Test Results

The CareSens N POP meter allows you to mark a result of a post-meal test with  symbol. The post-meal test mark () can be attached just before applying the blood sample. Once you attach the post-meal mark () to the test results, it cannot be deleted.

Step 7


If you want to attach a post-meal mark () to a test result, press and hold  for 3 seconds after inserting the test strip. The post-meal mark () and the  symbol will appear on the screen. The test result will also be displayed with the post-meal mark (). If you do not want to save result as a post-meal test, move on to step 8 after step 6.

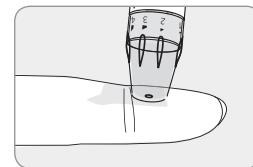


Caution: If "EP" blinks on the screen when a test strip is inserted, check your strip expiration date. ("EP" only appears when the setting of notifying expiration date function is on. Please read page 17 or page 40 for further information of setting strip expiration date.)


Applying Blood Sample

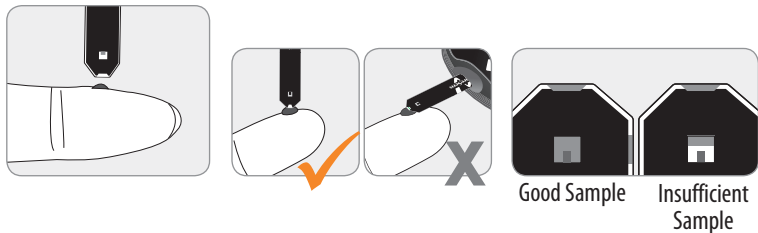
Step 8

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. A minimum volume of 0.5 microliter is needed to fill the confirmation window. (actual size of 0.5 μ L: )



Step 9

After the  symbol appears on the screen, apply the blood sample to the narrow end of the test strip till the meter beeps. If the confirmation window is not filled before the meter finishes counting down then discard the test strip and insert a new one. If the confirmation window is not filled in time because of abnormal viscosity or insufficient volume, the Er4 message will appear.



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 reinsert it, and apply the blood sample after ▲ symbol appears on the screen.

Step 10

The test result 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.

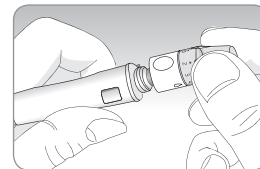
Discard used test strips safely in appropriate containers.



Discarding Used Lancets

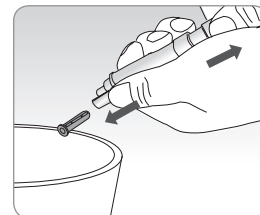
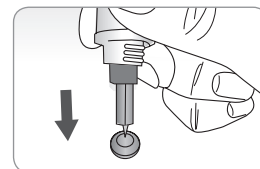
Step 1

Unscrew lancing device tip.



Step 2

Place protective disk on lancet. Pull out the sliding barrel and simultaneously push the lancet ejector forward with the thumb to dispose of used lancet in a proper biohazard container.



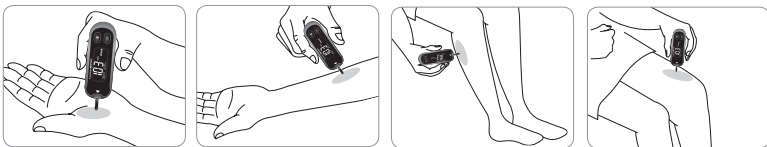
Caution: The lancet is for single use only. Never share or reuse a lancet. Always dispose of lancets properly.

Alternative Site Testing

What is AST (Alternative Site Testing)?

Usually, when someone tests their glucose, they take the blood sample from the tip of the finger. However, since there are many nerve endings distributed there, it is quite painful. When doing a glucose test, using different parts of the body such as the forearms, palms, thighs, and calves can reduce the pain during testing. This method of testing with different parts of the body is called Alternative Site Testing. While AST may reduce the pain during testing, it may not be simple for everyone and the following precautions should be observed during testing.

Alternative Sites for Testing



Alternative Site Blood Sampling (forearm, palm, thigh, calf)

Select a clean, soft and fleshy sample site area free of visible veins and hair and away from bones. Gently massage the sample site to help blood circulation to minimize result differences between fingertip and alternative site sampling. Firmly press and hold the lancing device against site. Wait until the skin surface under the lancing device changes color. Then press the release button while continuing to apply pressure. Keep holding the lancing device against your skin until sufficient (at least 0.5 μ L, actual size: ●) blood is drawn. Carefully lift the lancing device away from your skin.

Things to know when using AST

Please understand the following things before testing at alternative site (forearms, palms, thighs, and calves). The capillary blood of the fingertip shows the change in glucose more rapidly than AST. Therefore, the test results from the fingertip test and AST may differ. This is because things such as lifestyle and ingested food have an effect on glucose levels.

Acceptable situations for AST

When your blood glucose levels are stable

- Fasting period
- Before a meal
- Before sleeping

Situations requiring fingertip test

When your blood glucose levels are unstable

- During the two hours after a meal or exercise
- When sick or when glucose levels seem quite lower than test value
- When hypoglycemia is not well recognized
- When insulin has the biggest effect
- 2 hours after an insulin injection

HI and Lo Messages

AST Precautions

- Do not ignore the symptoms of hyperglycemia or hypoglycemia.
- When the results of the test do not reflect your opinion, retest using the fingertip test. If the fingertip result still does not reflect the way you feel, please consult your healthcare professional.
- Do not rely on the AST results for changing your treatment method.
- The amount of glucose in alternative sites differs from person to person.
- Before using AST, please consult your healthcare professional.

Note: Results from alternative site and fingertip samples may differ from each other as there is a time lag for the glucose levels to reach the same value. Use a fingertip for testing if you suffer from hypoglycemia or have experienced hypoglycemic shock or symptoms.

Note: If the sample drop of blood runs or spreads due to contact with hair or with a line in your palm, do not use that sample. Try puncturing again in a smoother area.

HI Message

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

The 'HI' character appears when the blood glucose level is more than 600 mg/dL (33.3 mmol/L) and indicates hyperglycemia (very high blood sugar).


If the 'HI' message is displayed again on re-testing, please contact your healthcare professional immediately.



Lo Message

The 'Lo' character appears when the result is less than 20 mg/dL (1.1 mmol/L) and indicates hypoglycemia (very low blood sugar).

If the 'Lo' message is displayed again on re-testing, please contact your healthcare professional immediately.

* When the hypoglycemia indicator is on,  symbol also appears.



Note: Please contact your authorized i-SENS sales representative, if such messages are displayed even if you do not have hyperglycemia or hypoglycemia.

Target Blood Glucose Ranges

Reminders	<i>Your target ranges from your healthcare professional</i>
<i>Time of day</i>	
Before breakfast	
Before lunch or dinner	
1 hour after meals	
2 hours after meals	
Between 2 a.m. and 4 a.m.	

Expected Values : The range of a normal fasting* blood glucose level for non-diabetic adults is between 70-99 mg/dL (3.9-5.5 mmol/L). Two (2) hours after a meal, the range of a normal blood glucose level for non-diabetic adults is between 100-139 mg/dL (5.6-7.7 mmol/L).

*Fasting is defined as no caloric intake for at least eight (8) hours.

Reference


American Diabetes Association. "Standards of Medical Care in Diabetes – 2012." *Diabetes Care*. January 2012; 35(1):S11-S63.

Transferring Test Results

Test results stored in CareSens N POP meter can be transferred from the meter to a computer using PC care software and cable. The 'Pc' is displayed when the data cable connects the meter with computer. For more information, contact your authorized i-SENS sales representative or visit at www.i-sens.com.





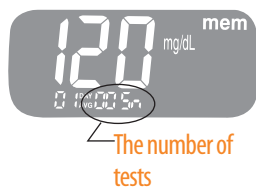
Meter Memory

The CareSens N POP meter can save up to 500 glucose test results with time and date. If the memory is full, the oldest test result will be deleted and the latest test result will be stored. The CareSens N POP meter calculates and displays the averages of total test results, pre-meal test (Pr) results, and post-meal test () results from the last 1, 7, 14, 30 and 90 days.


Viewing Averages

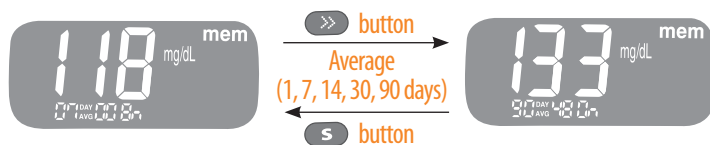
Step 1

Press the  or  button to turn the meter on. The current date and time will be displayed on the bottom of the screen for 2 seconds, followed by the 1 day average value and the number of the test results saved within the current day.




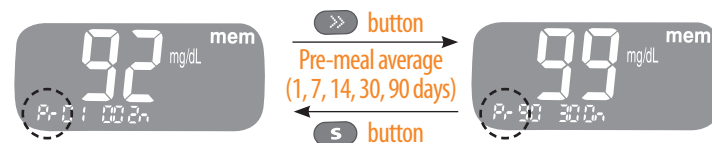
Step 2 Viewing Averages

Press the  to view 7, 14, 30 and 90-day average values and the number of tests performed for the last test period.





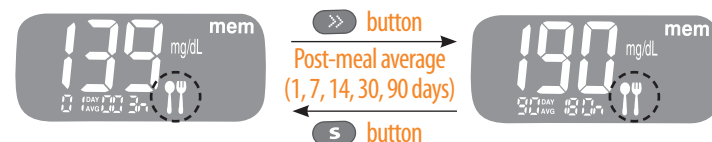
Step 3 Viewing Pre-meal Averages


Repeatedly press the  to view 1, 7, 14, 30 and 90 day average value and the number of tests performed pre-meals with the 'Pr' symbol for the last test period.



Step 4 Viewing Post-meal Averages

On pressing the  again, 1, 7, 14, 30 and 90 day average value and the number of tests performed post-meals for the last test period will appear on the screen. Hold the  button to turn off the meter.



Use the  button to scroll back through the averages seen previously.

Viewing Test Results

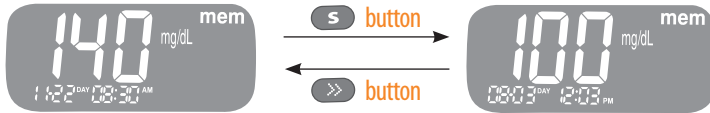
Step 1

Press the **S** button to turn the meter on. The current date and time will be displayed on the bottom of the screen for 2 seconds, followed by the 1 day average value and the number of the test results saved within the current day.



Step 2

Use the **S** button to scroll through the test results, starting from the most recent and ending with the oldest. Press the **>>** to return to the result seen previously. The test date and the recorded temperature will display alternately. After checking the stored test result, hold the **S** button to turn off the meter.



Setting the Post-meal Alarm (PP2 Alarm)

The PP2 alarm goes off 2 hours after setting the alarm. The alarms ring for 15 seconds and can be silenced by pressing **>>** or the **S** button or by inserting a test strip.

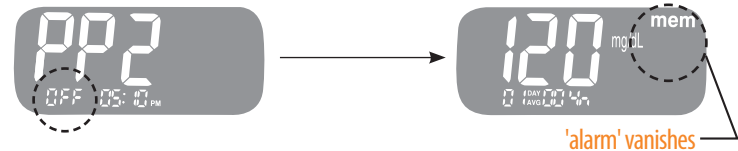
Step 1 Setting the PP2 alarm On

Without inserting a test strip, press and hold **>>** for 3 seconds to set the post-meal alarm. The 'PP2' character, the 'alarm' character and then the 'On' character will be displayed. The screen will then automatically change to the memory check mode. At this time, the 'alarm' character, indicating that the PP2 alarm has been set, will be displayed on the screen.



Step 2 Setting the PP2 alarm OFF

To turn off the PP2 alarm, press and hold **>>** for 3 seconds. The 'PP2' character and the 'OFF' character will appear on the screen. Then the screen will change automatically to the memory check mode without the 'alarm' character being displayed.



Setting the Strip Expiration Date Indicator

The test strip expiration date indicator can be set in the CareSens N POP meter. The strip expiration date is printed on the test strip vial.

At any stage, if the **S** button is pressed for 3 seconds, the meter will be turned off.

To turn on the indicator function, see page 17 to view how to turn on the indicator.

Step 1 Enter the Expiration Date Setting

Press and hold the **>>** and **S** button at the same time for 3 seconds to enter the expiration date settings. After all segments flash across the screen, "EP" will be displayed on the screen. Press the **S** button to change the date.

Note: The strip expiration date is printed on the test strip vial.

Step 2 Setting the Year

A number indicating the year will blink in the left corner of the screen. Press the **>>** button until the correct year appears.

Press the **S** button to confirm the year and set the month.



Step 3 Setting the Month

A number indicating the month will blink in the left corner of the screen. Press the **>>** button until the correct month appears. After finishing the setting, press and hold the **S** button for 3 seconds to turn off the meter.








Caring for Your System

Use a soft cloth or tissue to wipe the meter exterior. If necessary, the soft cloth or tissue might be dipped 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 or heat for an extended period of time.
- 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 shocks.
- Do not try to fix or alter the meter in any way.
- Keep the meter away from strong electromagnetic fields such as cell phones and microwave ovens.
- The CareSens N POP meter should be used only with CareSens N strips.
- Keep the meter in a cool and well ventilated place.
- Store all the meter components in the carrying case to prevent loss.

Understanding Error and Other Messages

	A used test strip was inserted. > Repeat the test with a new test strip.
	The blood or control solution sample was applied before the ▲ symbol appeared. > Repeat the test with a new test strip and wait until the ▲ symbol appears before applying the blood or control solution sample.
	The blood sample has abnormally high viscosity or insufficient volume. > Repeat the test after inserting a new test strip.
	This error message may appear when the wrong blood glucose test strip is used instead of CareSens N blood glucose test strip. > Repeat the test with a CareSens N test strip.
	There is a problem with the meter. > Do not use the meter. Contact your authorized i-SENS sales representative.

General Troubleshooting

	<p>The temperature during the test was above the operating range.</p> <p>> Move to an area where the temperature is within the operating range (10-40°C/50-104°F) and repeat the test after the meter and test strips have reached a temperature within the operating range.</p>
	<p>The temperature during the test was below the operating range.</p> <p>> Move to an area where the temperature is within the operating range (10-40°C/50-104°F) and repeat the test after the meter and test strips have reached a temperature within the operating range.</p>

Note: If the error messages persist, contact your authorized i-SENS sales representative.

Problem	Troubleshooting
<p>The display is blank even after inserting a test strip.</p>	<ul style="list-style-type: none"> • Check whether the test strip is inserted with the contact bars facing up. Check if the strip has been inserted completely into the test strip port. • Check if the appropriate test strip was used. • Check whether the batteries are inserted with the '+' side facing up. • Replace the batteries.
<p>The test does not start even after applying the blood sample on the strip.</p>	<ul style="list-style-type: none"> • Check if the confirmation window is filled completely. • Repeat the test after inserting a new test strip.
<p>The test result doesn't match the way you feel.</p>	<ul style="list-style-type: none"> • Repeat the test after inserting a new test strip. • Check the expiration date of the test strip. • Check the meter.

Note: If the problem is not resolved, please contact your authorized i-SENS sales representative.

Performance Characteristics

The performance of CareSens N POP Blood Glucose Monitoring System has been evaluated in laboratory and in clinical tests.

Accuracy: The accuracy of the CareSens N POP BGM System (Model GM505WAA, GM505WBA) was assessed by comparing blood glucose results obtained by patients with those obtained using a YSI Model 2300 Glucose Analyzer, a laboratory instrument.

The following results were obtained by diabetic patients at clinic centers.

Slope	1.006
Y-intercept	0.392 mg/dL (0.022 mmol/L)
Correlation coefficient (r ²)	0.986
Number of Sample	600
Range tested	33 - 455 mg/dL (1.833 mmol/L – 25.278 mmol/L)

Accuracy results for glucose concentration < 75 mg/dL (4.2 mmol/L)

Within ± 5 mg/dL (Within ± 0.28 mmol/L)	Within ± 10 mg/dL (Within ± 0.56 mmol/L)	Within ± 15 mg/dL (Within ± 0.83 mmol/L)
82/84 (97%)	84/84 (100%)	84/84 (100%)

Accuracy results for glucose concentration ≥ 75 mg/dL (4.2 mmol/L)

Within ± 5%	Within ± 10%	Within ± 15%	Within ± 20%
268/516 (52%)	458/516 (89%)	511/516 (99%)	516/516 (100%)

Precision: The precision studies were performed in a laboratory using CareSens N POP BGM Systems.

<i>Within Run Precision</i>		
*Blood avg.	39 mg/dL (2.2 mmol/L)	SD = 1.9 mg/dL (0.1 mmol/L)
*Blood avg.	82 mg/dL (4.6 mmol/L)	SD = 2.7 mg/dL (0.2 mmol/L)
*Blood avg.	145 mg/dL (8.1 mmol/L)	CV = 2.9%
*Blood avg.	179 mg/dL (9.9 mmol/L)	CV = 3.9%
*Blood avg.	341 mg/dL (18.9 mmol/L)	CV = 2.5%

<i>Total Precision</i>		
*Control avg.	32 mg/dL (1.8 mmol/L)	SD = 1.7 mg/dL (0.1 mmol/L)
*Control avg.	121 mg/dL (6.7 mmol/L)	CV = 3.6%
*Control avg.	354 mg/dL (19.7 mmol/L)	CV = 4.3%

This Study shows that there could be variation of up to 4.3%.

Warranty Information

Manufacturer's Warranty

i-SENS, Inc. warrants that the CareSens N POP Meter shall be free of defects in material and workmanship in normal use for a period of five (5) years. The meter must have been subjected to normal use. The warranty does not cover improper handling, tampering, use, or service of the meter. Any claim must be made within the warranty period.

The i-SENS company will, at its discretion, repair or replace a defective meter or meter part that is covered by this warranty. As a matter of warranty policy, i-SENS will not reimburse the consumer's purchase price.

Obtaining Warranty Service

To obtain warranty service, you must return the defective meter or meter part along with proof of purchase to your nearest i-SENS Authorized Warranty Station.

