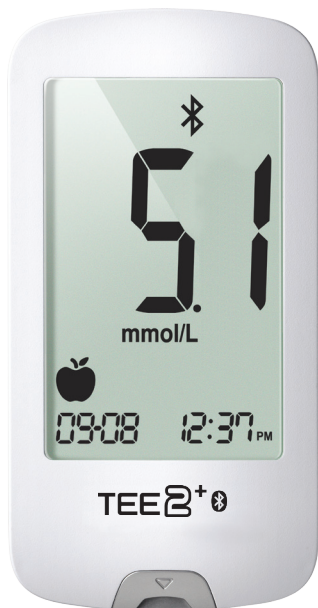


Owner's Booklet

TEE2⁺

Blood Glucose Monitoring System



Large LCD



No Coding



Intuitive Meal icons

spirit
healthcare

 **Bluetooth®**

Welcome to the TEE2 Plus Blood Glucose Monitoring System

Thank you for choosing the TEE2 Plus Blood Glucose Monitoring System. The system provides you with rapid 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.

Test results can be sent to a smartphone through Bluetooth® wireless connection.

Bluetooth® wireless technology

Bluetooth wireless technology is used by some smartphones and many other devices. TEE2 Plus Meter uses Bluetooth wireless technology to pair* and to send your glucose results to a smartphone.

The TEE2 Plus Meter is designed to work with the SmartLog™ mobile app. When using the TEE2 Plus System, we suggest you pair your TEE2 Plus Meter with your smartphone and track your results.

* The process of creating a connection between two Bluetooth devices. An auto-generated passkey has to be exchanged between the two devices. Once the devices are paired, they will automatically communicate with each other when the Bluetooth feature is activated.



WARNING:

Turn off the Bluetooth feature in areas where the use of wireless devices is restricted, such as hospitals, some healthcare professional offices, and aeroplanes.

Trademarks

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by i-SENS, Inc. is under license. All other trademarks and trade names are those of their respective owners.

Note:

The SmartLog mobile app may not be compatible with all smartphones.

Table of Contents

Information

Important Information: Read This First!	6
Specifications	8
TEE2 Plus Blood Glucose Monitoring System	9
Inserting or Replacing the Batteries	10
Caring for Your System	11
TEE2 Blood Glucose Test Strip	12
TEE2 Plus Blood Glucose Meter	14
TEE2 Plus Blood Glucose Meter Display	15

Preparation

Setting Up Your System	16
Setting Up Bluetooth	17
Adjusting the Date and Time	20
Setting the Sound On/OFF	22
Turning on the Strip Expiration Date Indicator	23
Turning on the Hypoglycemia (HYPo) Indicator	24
Setting the Strip Expiration Date Indicator	25
Checking the System	26
Control Solution Testing	27
Comparing the Control Solution Test Results	30

Testing

Using the Lancing Device	31
Preparing the Lancing Device	32
Preparing the Meter and Test Strip	34
Applying Blood Sample	34
Discarding Used Lancets	38
Alternate Site Testing	39
HI and Lo Messages	42
Target Blood Glucose Ranges	43
Transferring Test Results Using Cable	43

Additional Functions

Meter Memory	44
Viewing Averages Stored in Memory	44
Viewing Test Results Stored in Memory	47
Setting the Alarm Function	48
Setting the Post-meal Alarm (PP2 alarm)	48
Setting the Time Alarms (alarm 1-3)	50

Maintenance

Understanding Error Messages	52
General Troubleshooting	54
Performance Characteristics	55
System Accuracy and Measurement Precision	55
Influence Quantities	57
User Performance Evaluation	58
Warranty Information	59

Important Information: Read This First!

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

Intended use:

TEE2 Plus 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. TEE2 Plus Blood Glucose Monitoring System should be used only for self-testing outside the body (*in vitro* diagnostic use only). TEE2 Plus 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 site testing on forearm and palm.

Meaning of Symbols Used:

 For *in vitro* diagnostic use  Authorised representative

 This product fulfills the requirements for Directive 98/79/EC on *in vitro* 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

 Batch code

 Consult instructions for use  Manufacturer

 Temperature limitation  Serial number

- Glucose in blood samples reacts with the chemical in the test strip to produce a small electrical current. The TEE2 Plus meter detects this electrical current and measures the amount of glucose in the blood sample.
- The TEE2 Plus blood glucose meter is designed to minimise code related errors in monitoring by using the no-coding function.
- The TEE2 Plus blood glucose meter should be used only with the TEE2 Test Strips.
- An abnormally high or low red blood cell count (hematocrit level over 65 % or below 15 %) may produce inaccurate results.
- If your test result is below 3.3 mmol/L or above 13.3 mmol/L, consult a healthcare professional immediately.
- Inaccurate results may occur in severely hypotensive individuals or patients in shock. Inaccurate low results may occur for individuals experiencing a hyperglycemic-hyperosmolar state, with or without ketosis. Critically ill patients should not be tested with blood glucose meters.
- Inaccurate results may occur in patients undergoing oxygen therapy.

If you need assistance, please contact the Spirit Healthcare 24/7 Freephone Support Line at 0800 881 5423 or go to www.spirit-healthcare.co.uk.

Specifications

Product specifications

Measurement range	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	1,000 test results
Size	108.4 x 55.8 x 15 (mm)
Weight	71 g (with batteries)
Bluetooth® technology	<ul style="list-style-type: none">• Frequency range: 2.4–2.4835 GHz• Operating range distance: maximum 10 meters (unobstructed)• Operating channels: 40 channels• Security encryption: 128-bit AES (Advanced Encryption Standard)

Operating ranges

Temperature	5–50 °C
Relative humidity	10–90 %
Hematocrit	15–65 %

Storage/transport conditions

Temperature	Meter (with batteries)	0–50 °C
	Test strip	1–30 °C
	Control solution	8–30 °C
Relative humidity	Test strip	10–90 %

TEE2 Plus Blood Glucose Monitoring System

TEE2 Plus Blood Glucose Monitoring System includes the following items:

- * TEE2 Plus Blood Glucose Meter
- * Owner's Booklet
- * Quick Reference Guide
- * Batteries

Optional items:

- * TEE2 Blood Glucose Test Strips
- * Lancets
- * Lancing Device
- * Logbook
- * Carrying Case

- Check all the components after opening the TEE2 Plus Blood Glucose Monitoring System package. The exact contents are listed on the main box.
- Certain components may not be included depending on the place of purchase.

Inserting or Replacing the Batteries

The TEE2 Plus 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.

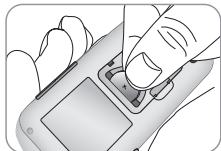
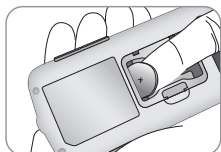
Step 1

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 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.



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 16.

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.
- 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.
- Avoid getting any liquid or moisture in the test strip vial. This can affect the test strips and cause inaccurate test results.
- Do not apply samples other than capillary whole blood or control solution to the test strip.
- Strong electromagnetic radiation may interfere with the proper operation of this device. Keep the device away from sources of strong electromagnetic radiation, especially when measuring your blood glucose.
- Store all the meter components in the carrying case to prevent loss and help keep the meter clean.

Disposal of the meter

If you need to throw your meter away, you should follow existing policies and procedures of your own country or region. For information about correct disposal, please contact your local council or authority. If you need assistance, contact the Spirit Healthcare 24/7 Freephone Support Line at 0800 881 5423 or go to www.spirit-healthcare.co.uk.

TEE2 Blood Glucose Test Strip

The TEE2 Plus 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.



Insert



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



Warning!

- The TEE2 Test Strips 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 between 1–30 °C and 10–90 % relative humidity.
- 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.
- Avoid getting any liquid or moisture in the test strip vial. This can affect the test strips and cause inaccurate test results.
- Do not apply samples other than capillary 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.
- For detailed storage and usage information, refer to the TEE2 test strip package insert.

Caution:

- Keep the meter and testing supplies away from young children.
- Drying agents in the vial cap may be harmful if inhaled or swallowed and may cause skin or eye irritation.

TEE2 Plus Blood Glucose Meter

Data Port

Used to transfer data from the meter to a computer with a cable

▲, ▼ Button

Turns the meter on, selects or changes information



Display

Shows results and messages

● Button

Turns the meter on/off, confirms menu selections, and changes information

Test Strip Port

Insert test strip here

Note:

- The cable for data management software can be ordered separately. Please contact Spirit Healthcare on 0800 881 5423.
- The unit of measurement is fixed and it cannot be changed by the user.

TEE2 Plus Blood Glucose Meter Display



- ① **Test results** : test results displaying panel
- ② **Memory recall mode** : appears when test results stored in the memory are displayed
- ③ **PP2 alarm** : appears when the post-meal alarm has been set
- ④ **Bluetooth symbol**
- ⑤ **Mute symbol** : appears only when the sound is set to OFF
- ⑥ **Control Solution flag** : appears when the control solution test results are saved or displayed

- ⑦ **Decimal point** : appears when the blood glucose measuring unit is set to mmol/L
- ⑧ **mmol/L** : unit for measuring blood glucose
- ⑨ **alarm**: appears when the time alarm has been set
- ⑩ **Battery symbol** : indicates meter battery is running low and needs to be replaced
- ⑪ **Blood insertion symbol** : indicates meter is ready for the application of a drop of blood or control solution
- ⑫ **Pre-meal test flag** : used for tests done before eating
- ⑬ **Post-meal test flag** : used for tests done after eating
- ⑭ **Fasting test flag** : used for tests done after fasting for at least 8 hours
- ⑮ **Month/Day/Hour/Minute**

Note:

It is recommended to check if the display screen on the meter matches the illustration above every time the meter turns on. Do not use the meter if the display screen does not exactly match the illustration as the meter may show incorrect results.

Setting Up Your System

Press and hold the ● button for 3 seconds to enter SET mode. After all settings are finished, press and hold the ● button for 3 seconds to turn off the meter.

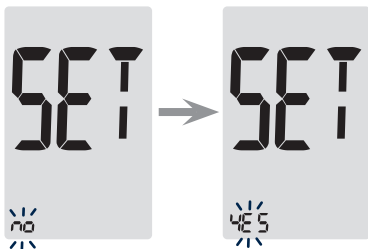
Press the ▲ or ▼ button to change values. Press and hold the ▲ or ▼ button to scroll faster.

Step 1 Entering the SET Mode

Press and hold the ● button for 3 seconds to enter SET mode.

After all the segments flash across the screen, 'SET' will show up.

Press the ▲ or ▼ button to select 'YES' and press the ● button to go to the next step.



Note:

Follow steps 2–3 to pair your meter and smartphone. Pairing allows the meter to communicate wirelessly with your smartphone. Ensure that devices are within the maximum Bluetooth range (10 metres). Before pairing your meter and smartphone, download and install the SmartLog mobile app on your smartphone.

Setting Up Bluetooth

Step 2 Bluetooth Pairing



① If you do not want to connect your meter to your smartphone, press the ● button when the screen shows on the right. The meter will go to Step 4 Year Setting mode.

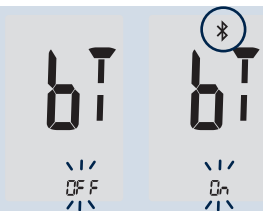


② Press the ▲ or ▼ button. The meter screen will display 'OFF', 'On', and 'PAIR' in turn. To pair your meter with your smartphone, press the ● button when 'PAIR' blinks on the screen.



Note:

The  symbol will appear on the screen when the Bluetooth feature is on. When the  symbol is not present on the screen, the Bluetooth feature is off. When you need to turn off/on the Bluetooth feature, press the ● button when OFF/On blinks on the screen.



Step 3 Entering the PIN number

① The  symbol and 'PIN' will appear if you press the  button when the meter screen shows 'PAir'.

② Launch SmartLog mobile app to start pairing the meter with your smartphone.
Find the 'Accessories' menu and select the appropriate meter model on SmartLog mobile app.

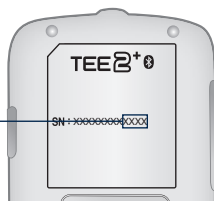


Note:

Follow the on-screen instructions on SmartLog mobile app to begin searching your meter. Some content or menus may differ depending on your smartphone's operating system or SmartLog version.

③ Look for 'TEE2' and the last 4 characters of the meter serial number on the SmartLog mobile app screen to correctly identify your meter.
Touch your meter's ID (TEE2 XXXX) on the SmartLog mobile app screen.

The last 4 characters of the meter serial number



④ The meter will display six digit PIN number.



⑤ Enter the PIN number into the SmartLog mobile app and touch 'OK'. Make sure the PIN you enter on your smartphone matches the PIN on your meter screen.

⑥ When your meter and smartphone are paired and connected, the meter will display 'SUCCESS' and the saved test results will be transferred to your smartphone.



⑦ When the data transfer is finished, the meter will display 'End' on the screen. Press the ● button to go to Step 10 Sound Setting mode. See page 22. If the meter displays 'FAIL' and then 'OFF', repeat steps 2 to 5.



Note:

Some smartphones, especially those that are not tested or approved by i-SENS, may be incompatible with your meter. Visit www.i-sens.com/smartlog for more information about supported smartphones. You can also scan the QR code on the back cover of this user manual.

Adjusting the Date and Time

Step 4 Setting the Year

Press the ▲ or ▼ button to adjust until the correct year appears. When the present year appears, press the ● button to confirm your selection and to go to the next step.



Step 5 Setting the Month

A number indicating the month will blink on the screen.

Press the ▲ or ▼ button until the correct month appears. Press the ● button to confirm your selection and to go to the next step.



Step 6 Setting the Date

Press the ▲ or ▼ button until the screen displays the correct date. Press the ● button to confirm the date and to go to the next step.



Step 7 Setting the Time Format

The meter can be set in the AM/PM 12-hour or the 24-hour clock format.

Press the ▲ or ▼ button to select a format. The AM•PM symbol is not displayed in the 24-hour format. After selecting the format, press the ● button to go to the next step.



Step 8 Setting the Hour

Press the ▲ or ▼ button until the correct hour appears. After the hour is set, press the ● button to go to the next step.



Step 9 Setting the Minute

Press the ▲ or ▼ button until the correct minute appears. After setting the minute, press the ● button to go to the next step.



Setting the Sound On/OFF

Step 10

On pressing the ▲ or ▼ button, the screen will display 'On' or 'OFF'. Press the ● button to confirm the selection.


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

- When you push a 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 press and hold the ▲ button to set the post-meal (PP2) alarm,
- When it is time for a pre-set blood glucose test.



If the sound is set to OFF, none of the sound functions will work. After setting the sound, press the ● button to go to the next step.

Note:

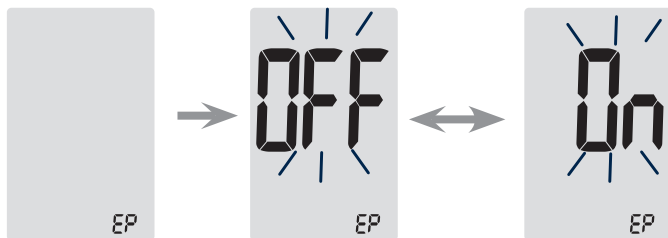
The  symbol is displayed only when the sound is set to OFF.

Turning on the Strip Expiration Date Indicator

Step 11

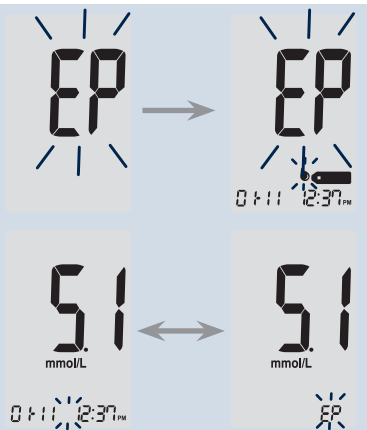
This setting allows you to turn the strip expiration date indicator on or off. This setting turns the function on or off only. See page 25 to set the strip expiration date. When 'EP' appears on the screen, press the ▲ or ▼ button. The screen will display 'On' or 'OFF'. Press the ● button to confirm the setting.

If you do not want to set the indicator, press the ● button while the screen displays 'OFF'.



Note:

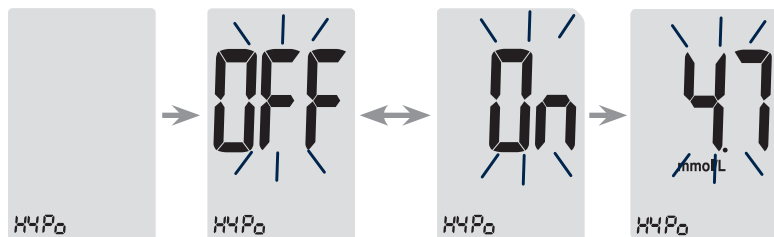
If the pre-set expiration date expires, the meter will display 'EP' when the test strip is inserted. 'EP' shows alternately also when the test result is displayed right after the test. If the expiration date is set to October of 2023, the meter will display 'EP' at the start of November, 2023.



Turning on the Hypoglycemia (HYPo) Indicator

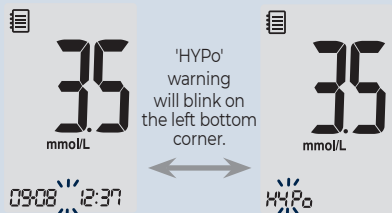
Step 12

This setting allows you to turn the hypoglycemia indicator (possible low blood sugar) On or OFF and to select the desired level for the indicator. You will be alerted any time your test result is lower than the selected level. On pressing the ▲ or ▼ button, the screen will display 'On' or 'OFF'. Press the ● button when 'On' appears to enter the setting. Press the ▲ or ▼ button until the desired hypoglycemia level between 1.1 and 5.0 mmol/L appears. Then, press the ● button to confirm the level and to return to step 2. See page 17.



Note:

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



Caution:

Ask your healthcare professional to help you decide what your hypoglycemia level is before setting your level.

Setting the Strip Expiration Date Indicator

Step 1 Entering the Expiration Date Setting

Press and hold the ▲ and ▼ buttons at the same time for 3 seconds to enter the expiration date settings. After all segments flash across the screen, 'EP' will show up.

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 ▲ or ▼ button until the correct year appears. Press the ● button to confirm the year and set the month.



Step 3 Setting the Month

A number indicating the month will blink at the bottom of the screen. Press the ▲ or ▼ button until the correct month appears. After setting, press and hold the ● button for 3 seconds to turn off the meter.



Checking the System



You may check your meter and test strips using the TEE2 Control Solution (control A and/or B). The TEE2 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 TEE2 Control Solution ranges printed on their labels. Compare the result displayed on the meter to the TEE2 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 27–29.

Notes:

- Use only the TEE2 Control Solution (available for purchase separately).
- Check the expiration date 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).
- Before using the control solution, shake the bottle and discard the first few drops and wipe the tip clean.
- Close the control solution bottle tightly and store at a temperature between 8–30 °C.

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.

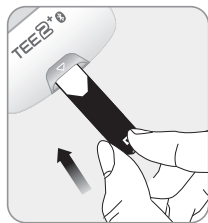
Control Solution Testing

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 show up.



Step 2

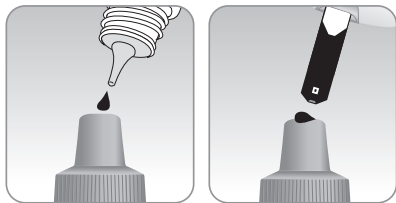
You can flag the control solution test result by pressing the ▼ button for 3 seconds. To undo the control solution flag, press the ▼ button for 3 seconds again.




Step 3


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 narrow edge of the test strip until the meter beeps. Make sure the confirmation window fills completely.

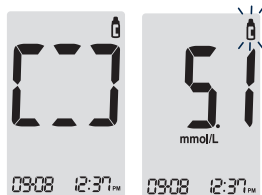
Note:

The meter may switch off if the control solution 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 4

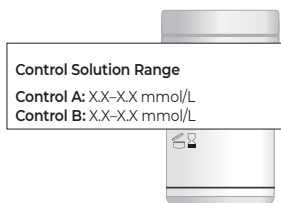
The display segments will rotate clockwise and a test result will appear after the meter counts down from 5 to 1.

When flagged, the result is stored in the meter's memory but it is not included in the averages.



Step 5

Compare the result displayed on the meter to the range printed on the test strip vial. The result should fall within the range.



Caution:

The range printed on the test strip vial is for the TEE2 Control Solution only. It has nothing to do with your blood glucose level.

Note:

The TEE2 Control Solution can be purchased separately. Please contact Spirit Healthcare on 0800 881 5423.

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 the range. Out of range results may occur in following situations:

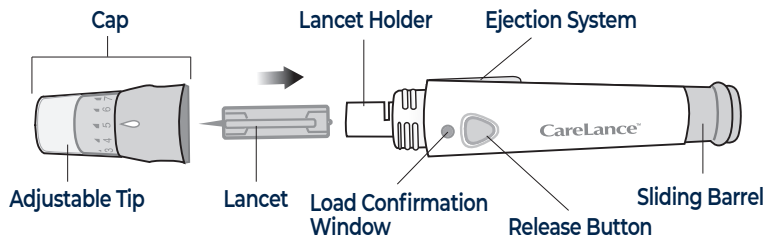
Situations	Do This
<ul style="list-style-type: none">• When the control solution bottle was not shaken well,• When the meter, test strip, or the control solution were exposed to high or low temperatures,• When the first drop of the control solution was not discarded or the tip of the bottle was not wiped clean,• When the meter is not functioning properly.	Repeat the control solution test by referring to the 'Notes' on page 26.
<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 TEE2 Test Strip and TEE2 Plus meter may not be working properly. Do not use your system and contact Spirit Healthcare 24/7 Freephone Support Line at 0800 881 5423.

Using the Lancing Device

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

You may use the lancing device that is included in the TEE2 Plus Blood Glucose Monitoring System or any other medically approved lancing device.



- 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 hard skin). Choose a different site each time you test.

Preparing the Lancing Device

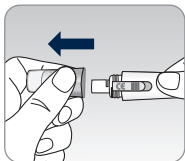
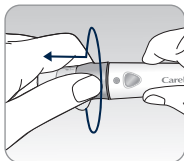
Step 1

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



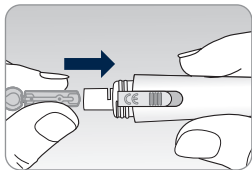
Step 2

Unscrew and remove the lancing device tip.



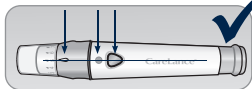
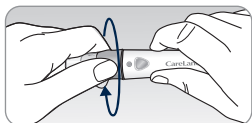
Step 3

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

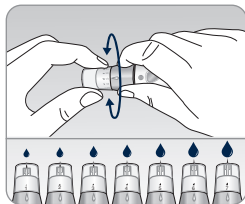
Turn the adjustable tip until it is aligned with the load confirmation window and release button as shown.



Step 5

The lancing device has seven puncture depth settings, numbered 1 through 7 (1 for a shallow puncture, 7 for a deeper puncture).

Choose a depth by rotating the top portion of the adjustable tip until the desired number aligns with the arrow.



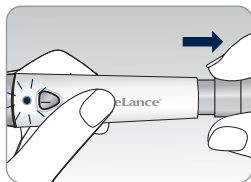
Note:

1 = least penetration of lancet into the skin.

7 = most penetration of lancet into the skin.

Step 6

To cock the lancing device, hold the body of lancing device in one hand and pull the sliding barrel with the other hand. The device is loaded when you feel a click and the load confirmation window turns red.




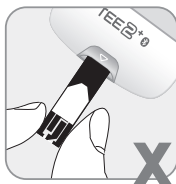
Note:

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.

Preparing the Meter and Test Strip

Step 7


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.

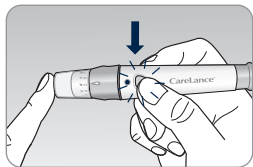


Applying Blood Sample


Step 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.

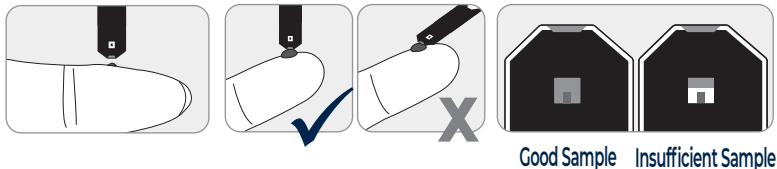
Wait a few seconds for a blood drop to form. A minimum volume of 0.5 microliter is needed to fill the confirmation window (actual size of 0.5 μ L: ).




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 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.



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 start from Step 2.

Step 10

Apply the blood sample to the narrow end of the test strip until you hear a 'beep'. At this time, the display segments will rotate clockwise while the blood is going in.

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 disposable containers. If the Bluetooth feature is activated, the meter will send the test result to the connected smartphone.



Test result

Note:

To transmit glucose data using the Bluetooth feature,

- The Bluetooth feature on the meter must be turned on,
- The meter and a smartphone must be paired,
- The SmartLog mobile app must be launched.

The meter will transmit data in the following cases,

- When the strip is ejected after measuring,
- When the meter is turned on (only when untransmitted data exists).



Step 11

You can attach a flag to a result to indicate particular situations while the strip is still in the meter. When the result is displayed right after a test, press the ▲ or ▼ button to select a pre-meal flag (🍏), a post-meal flag (🍷), a fasting flag (🕒), or a control solution 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.



No flag



Pre-meal flag



Post-meal flag



Fasting flag

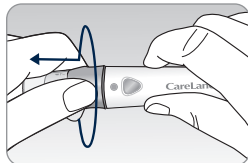


Control solution flag

Discarding Used Lancets

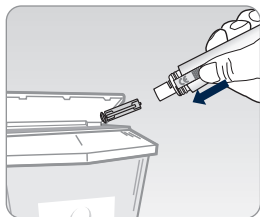
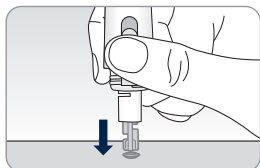
Step 1

Unscrew the lancing device tip.



Step 2

Stick the lancet into the saved protective disk.
Push the lancet ejector forward with the thumb to dispose of the used lancet in a proper biohazard container.



Caution:

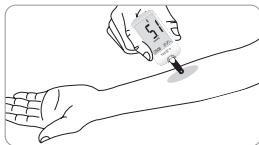
The lancet is for single use only. Never share or reuse a lancet. Always dispose of lancets properly.

Alternate Site Testing

What is AST (Alternate Site Testing)?

Usually, we take the blood sample from the tip of the finger. However, since there are many nerve endings in the fingertip, it can be quite painful. When doing a glucose test, using different parts of the body such as the forearms and palms can reduce the pain during testing. This method of testing with different parts of the body is called Alternate 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.

Alternate Sites for Testing



Alternate Site Blood Sampling (forearm and palm)

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 minimise result differences between fingertip and alternate 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 read the following before testing at alternate sites (forearms and palms).

The capillary whole blood of the fingertips reflects changes in glucose levels more rapidly than in alternate sites. The test results from the fingertip testing and AST may differ due to factors such as lifestyle and ingested food which affect glucose levels.

Acceptable Situations for AST

When your blood glucose levels are stable

- Fasting period
- Before a meal
- Before going to bed

Situations Requiring Fingertip Test

When your blood glucose levels are unstable

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

AST Precautions

- Before using AST, please consult your healthcare professional.
- 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 alternate sites differs from person to person.

Note:

- Results from alternate sites 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.
- 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 and Lo Messages

HI Message

The meter displays results between 1.1–33.3 mmol/L. 'HI' appears when the blood glucose level is greater than 33.3 mmol/L and indicates severe hyperglycemia (much higher than normal glucose levels).

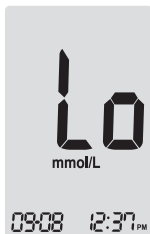
If 'HI' is displayed again upon retesting, please contact your healthcare professional immediately.



Lo Message

'Lo' appears when a test result is less than 1.1 mmol/L and indicates severe hypoglycemia (very low glucose levels).

If 'Lo' is displayed again upon retesting, please contact your healthcare professional immediately.



Note:

Please contact the Spirit Healthcare 24/7 Freephone Support Line at 0800 881 5423 or go to www.spirit-healthcare.co.uk, if such messages are displayed even if you do not have hyperglycaemia or hypoglycaemia.

Target Blood Glucose Ranges

Reminders

Time of day

Your target ranges

from your healthcare professional

Before breakfast

Before lunch or dinner

1 hour after meals

2 hours after meals

Between 2 a.m. and 4 a.m.

Expected Values : Normal blood glucose levels for an adult without diabetes are below 5.5 mmol/L before meals and fasting* and are less than 7.8 mmol/L two hours after meals. *Fasting is defined as no caloric intake for at least eight hours.

Reference

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

Transferring Test Results Using Cable

Test results stored in TEE2 Plus meter can be transferred from the meter to a computer using SmartLog software and cable. The meter screen displays 'Pc' when it is connected to the computer using the data cable. For more information, contact the Spirit Healthcare 24/7 Freephone Support Line at 0800 881 5423 or go to www.spirit-healthcare.co.uk.



Note:

Test results can also be transferred wirelessly using Bluetooth. To pair the meter and your smartphone, see page 17.

Meter Memory

The TEE2 Plus meter can save up to 1,000 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 meter calculates and displays the averages of total test results, Pre-meal (🍏) test results, Post-meal test (🍷), and Fasting test results (🕒) from the last 1, 7, 14, 30 and 90 days.

Viewing Averages Stored in Memory

Step 1

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

The number of tests within the current day



Step 2 Viewing Averages

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

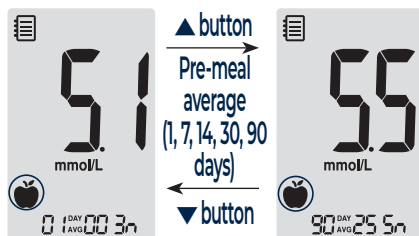


▲ button
Average
(1, 7, 14, 30, 90 days)
▼ button



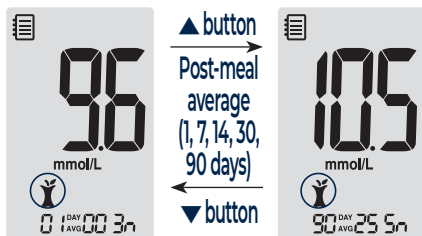
Step 3 Viewing Pre-meal Averages

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



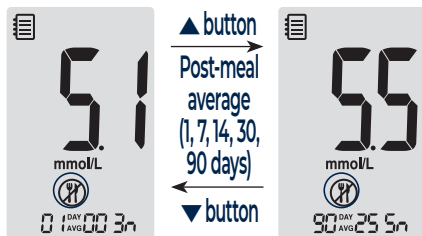
Step 4 Viewing Post-meal Averages

Press the ▲ button 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 the ▲ button 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 the ▼ button to scroll back through the averages seen previously.

Press the ● button to turn off the meter.

Note:

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

Viewing Test Results Stored in Memory

Step 1

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



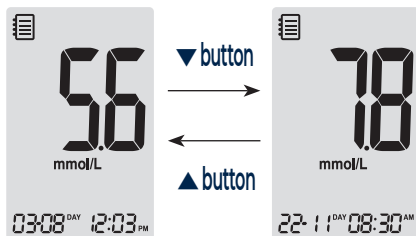
The number of tests within the current day

Step 2



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

Press the ▲ button to return to the result seen previously.

After checking the stored test results hold the ● button to turn off the meter.



Note:

The control solution test results saved with  symbol will be displayed with  symbol when you review the stored test results.

Setting the Alarm Function

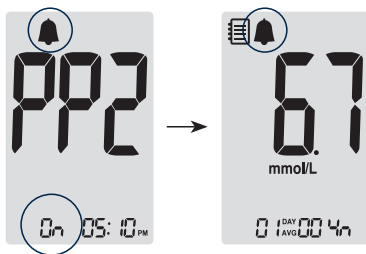
Four types of alarms can be set in the TEE2 Plus Meter: one post-meal alarm (PP2 alarm) and three time set alarms (alarm 1-3). The PP2 alarm goes off 2 hours after setting the alarm. The alarms ring for 15 seconds and can be silenced by pressing any button or by inserting a test strip.

Setting the Post-meal Alarm (PP2 alarm)

Step 1 Turning the PP2 alarm On

Without inserting a test strip, press and hold the ▲ button for 3 seconds to set the post-meal alarm.

'PP2', bell (🔔) symbol and 'On' will be displayed. The screen will then automatically change to the memory recall mode. At this time, bell (🔔) symbol, indicating that the PP2 alarm has been set, will be displayed on the screen.



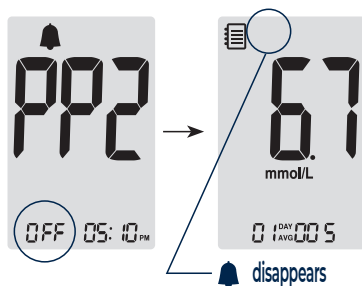
Note:

The PP2 alarm will automatically turn off if the meter's time setting is adjusted to more than two hours before or just past the currently activated PP2 alarm time.

Step 2 Turning the PP2 alarm OFF

To turn off the PP2 alarm, press and hold the ▲ button for 3 seconds.

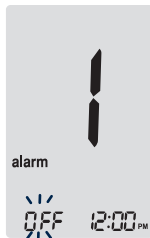
'PP2', bell (🔔) symbol and 'OFF' will appear on the screen. Then the screen will change automatically to the memory recall mode without bell (🔔) symbol displayed.



Setting the Time Alarms (alarm 1-3)

Step 1

Without inserting a test strip, press the ▲ and ● buttons simultaneously for 3 seconds to enter the time alarm setting. 'alarm 1' will be displayed while 'OFF' blinks on the screen.



Step 2

On pressing the ▼ button, 'alarm 1' is set and 'On' is displayed on the screen. Press the ▼ button again to cancel 'alarm 1'. 'OFF' will blink on the screen.



Step 3

Press the ▲ button to adjust the time of 'alarm 1'. A number representing the hour will blink on the screen. Press the ▼ button to set the hour.



Step 4

On pressing the ▲ button, the number indicating the minute will start blinking. Press the ▼ button to set the minute.



Step 5







Press the ● button to finish and to go to 'alarm 2' setting. Repeat steps 2 to 4 to set the remaining time alarms (alarm 2–3).







Step 6

Press the ● button for 3 seconds to finish and turn the meter off.

Understanding Error Messages

	<p>A used test strip was inserted. > Repeat the test with a new test strip.</p>
	<p>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.</p>
	<p>The temperature during the test was above or below the operating range. > Move to an area where the temperature is within the operating range (5–50 °C) and repeat the test after the meter and test strips have reached a temperature within the operating range.</p>
	<p>The blood sample has abnormally high viscosity or insufficient volume. > Repeat the test after inserting a new test strip.</p>

	<p>This error message may appear when the wrong blood glucose test strip is used instead of TEE2 blood glucose test strip.</p> <p>> Repeat the test with a TEE2 test strip.</p>
	<p>There is a problem with the meter.</p> <p>> Do not use the meter. Contact the Spirit Healthcare 24/7 Freephone Support Line at 0800 881 5423 or go to www.spirit-healthcare.co.uk.</p>
	<p>There is a problem with Bluetooth communication.</p> <p>> Contact the Spirit Healthcare 24/7 Freephone Support Line at 0800 881 5423 or go to www.spirit-healthcare.co.uk.</p>
	<p>An electronic error occurred during the test.</p> <p>> Repeat the test with a new test strip. If the error message persists, contact the Spirit Healthcare 24/7 Freephone Support Line at 0800 881 5423 or go to www.spirit-healthcare.co.uk.</p>

Note:

If the error messages persist, contact the Spirit Healthcare 24/7 Freephone Support Line at 0800 881 5423 or go to www.spirit-healthcare.co.uk.

General Troubleshooting

Problem	Troubleshooting
The display is blank even after inserting a test strip.	<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.
The test does not start even after applying the blood sample on the strip.	<ul style="list-style-type: none">• Check if the confirmation window is filled completely.• Repeat the test after inserting a new test strip.
The test result doesn't match the way you feel.	<ul style="list-style-type: none">• Repeat the test after inserting a new test strip.• Check the expiration date of the test strip.• Perform control solution test.

Note:

If the problem is not resolved, please contact the Spirit Healthcare 24/7 Freephone Support Line at 0800 881 5423 or go to www.spirit-healthcare.co.uk.

Performance Characteristics

System Accuracy and Measurement Precision

The performance of TEE2 Plus Blood Glucose Monitoring System has been evaluated in laboratory and in clinical tests.

Accuracy: The accuracy of the TEE2 Plus Blood Glucose Monitoring System (Model GM01BAC) 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	1.046
Y-intercept	-0.17 mmol/L
Correlation coefficient (r)	0.9959
Number of Subjects	100
Range tested	2.2–26.0 mmol/L

System accuracy results for glucose concentration < 5.55 mmol/L

Within ± 0.28 mmol/L	Within ± 0.56 mmol/L	Within ± 0.83 mmol/L
125/174 (71.8 %)	164/174 (94.3 %)	174/174 (100.0 %)

System accuracy results for glucose concentration ≥ 5.55 mmol/L

Within $\pm 5\%$	Within $\pm 10\%$	Within $\pm 15\%$
276/426 (64.8 %)	387/426 (90.8 %)	425/426 (99.8 %)

System accuracy results for glucose concentrations between 2.2 mmol/L and 26.0 mmol/L

Within ± 0.83 mmol/L and Within ± 15 %
599/600 (99.8 %)

Precision: The precision studies were performed in a laboratory using TEE2 Plus Blood Glucose Monitoring Systems.

<i>Within Run Precision</i>		
Blood average	2.3 mmol/L	SD = 0.1 mmol/L
	4.7 mmol/L	SD = 0.2 mmol/L
	6.9 mmol/L	CV = 3.4 %
	11.4 mmol/L	CV = 3.3 %
	17.8 mmol/L	CV = 3.5 %

<i>Between Run Precision</i>		
Control average	2.2 mmol/L	SD = 0.2 mmol/L
	6.7 mmol/L	CV = 2.5 %
	18.8 mmol/L	CV = 4.0 %

This study shows that there could be variation of up to 4.0 %.

Influence Quantities

Packed cell volume (Hematocrit)

Packed cell volume evaluation was conducted in various hematocrit levels. The range of hematocrit levels within the acceptance criteria is 15–65 %.

Interferences

The effect of various interfering substances was evaluated in whole blood samples. The presence of the following substances within the given concentrations does not affect blood glucose measurements. Higher concentrations of the substances shown below may cause inaccurate blood glucose results.

No.	Interferent	Concentration
1	Acetaminophen (paracetamol)	20 mg/dL
2	Ascorbic acid	3 mg/dL
3	Bilirubin	20 mg/dL
4	Ceftriazone	81 mg/dL
5	Cholesterol	500 mg/dL
6	Creatinine	3 mg/dL
7	Dopamine	13 mg/dL
8	EDTA	180 mg/dL
9	Galactose	60 mg/dL
10	Gentisic acid	50 mg/dL
11	Glutathione (Red)	17 mg/dL
12	Hemoglobin	500 mg/dL
13	Heparin	8000 U/dL

No.	Interferent	Concentration
14	Hydrocortisone	1 mg/dL
15	Ibuprofen	40 mg/dL
16	Icodextrin	2 mg/dL
17	L-Dopa (L-3,4-dihydroxyphenylalanine)	5 mg/dL
18	Maltose	1000 mg/dL
19	Mannitol	600 mg/dL
20	Methyl-DOPA	1.5 mg/dL
21	Pralidoxime Iodide (PAM)	25 mg/dL
22	Salicylate	60 mg/dL
23	Tolbutamide	100 mg/dL
24	Tolazamide	100 mg/dL
25	Triglycerides	3000 mg/dL
26	Uric acid	20 mg/dL
27	Xylose	25 mg/dL

User Performance Evaluation

A study evaluating glucose values from fingertip capillary blood samples obtained by 100 lay persons showed the following results:

100 % within ± 0.83 mmol/L of the medical laboratory values at glucose concentrations below 5.55 mmol/L, and 100 % within ± 15 % of the medical laboratory values at glucose concentrations at or above 5.55 mmol/L.

Warranty Information

Manufacturer's Warranty

i-SENS, Inc. warrants that the TEE2 Plus 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.

i-SENS 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 Spirit Healthcare. Please contact Customer Support on 0800 881 5423 for further information.

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see supported devices/
download app (scan the QR
code for easy access).

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