User Manual

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PGUAA-0000380 REV0 2023-03

Consult instructions for use

WEEE (waste electrical and

electronic equipment

Temperature limit

Manufacturer Manufacturer

LOT Batch code

SN Serial number

≥≤ Use-by date

* Lancets

01 Important Information: Read This First!

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

Intended use

CareSens S Fit BT Blood Glucose Monitoring System is intended for the quantitative measurement of alucose in fresh capillary whole blood from the

The CareSens S Fit BT Blood Glucose Monitoring System is intended for use outside the body (in vitro diagnostic use) and is intended for use as an aid to monitor the effectiveness of diabetes management. The system is for self-testing or healthcare professional use and should not be used for the diagnosis of or screening for diabetes or for testing newborns.

Meaning of Symbols Used:

C € CE Mark Authorised representative in the European Communmity/European

Union In vitro diagnostic medical IVD



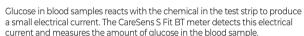
8 Biological risks











The CareSens S Fit BT blood glucose meter is designed to minimise code

- related errors in monitoring by using the no-coding function.
- The CareSens S Fit BT blood glucose meter should be used only with the
- 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
- Inaccurate results may occur in patients undergoing oxygen therapy.

patients should not be tested with blood alucose meters.

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.

02 Specifications

Product specifications

<u> </u>		
Measurement range	1.1–33.3 mmol/L	
Sample size	Minimum 0.5 μL	
Test time	6 seconds	
Sample type	Fresh capillary whole blood	
Calibration	Plasma-equivalent	
Assay method	Electrochemical	
Battery life	1,000 tests	
Power	One 3.0 V lithium battery (disposable, type CR2032)	
Memory	1,000 test results	
Size	95 x 49 x 17.5 mm	
Weight	51.5 g (with battery)	

Bluetooth® technology

- Frequency range: 2.4-2.4835 GHz Operating range distance:
- maximum 10 meters (unobstructed) Operating channels: 40 channels
- ecurity encryption: 128-bit AES (Advanced Encryption Standard)

Operating ranges

- P-1			
Temperature	5–45 °C		
Relative humidity	10–90 %		
Hematocrit	15–65 %		

Storage/Transport Conditions

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

03 CareSens S Fit BT Blood Glucose Monitoring

CareSens S Fit BT Blood Glucose Monitoring System includes the following

* CareSens S Fit BT Blood Glucose Meter * Instructions for Use CareSens S Fit BT Blood Glucose Monitoring System may include the

- following items: * CareSens S Blood Glucose Test Strips * Lancing Device * Battery * Logbook
- * Carrying Case Check all the components after opening the CareSens S Fit BT Blood Glucose
- Monitoring System package. The exact contents are listed on the main box.
- Please contact the Spirit Healthcare 24/7 Freephone Support Line for a free data
- transmission cable at 0800 881 5423 or go to www.spirit-healthcare.co.uk.

04 Inserting or Replacing the Battery

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



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



Remove the used battery. Slip your thumb finger and pulling it out with your index and thumb finger as shown in the diagram. Insert a new battery with the + side facing up and nake sure the battery is inserted firmly.



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

Removing the meter battery will not affect your stored results. However, you may need to reset your meter settings. See page 10.

05 Caring for Your System

Use a soft cloth or tissue to wipe the meter exterior. If necessary, dip the soft cloth or tissue in a small amount of alcohol.

Do not use organic solvents such as benzene or acetone, or household and industrial cleaners that may cause irreparable damage to the meter.

- Do not expose the meter to direct sunlight, heat, or excessive humidity for an extended period of time. It is recommended to store and use the test system
- 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. Keep the meter away from strong electromagnetic field sources, such as cell
- phones and microwave ovens Store all the meter components in the carrying case to prevent loss and help
- keep the meter clean. Avoid getting any liquid or moisture in the test strip vial. 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. Store the meter in a cool and dry place between 0–50 °C.

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 <u>www.spirit-healthcare.co.uk.</u>

06 CareSens S Blood Glucose Test Strip

The CareSens S Fit BT Blood Glucose Monitoring System measures blood glucose quickly and accurately. It automatically absorbs the small blood sample applied to the tip of the strip.

09 Setting Up Your System

Contact bars

Confirmation window

The CareSens S Test Strips should be used only with fresh capillary whole

Test strips in new, unopened vials and test strips in vials that have been

Keep test strips away from direct sunlight or heat and do not freeze.

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

Store test strips in a cool and dry place at a temperature between 1–30 $\,^\circ$ C and

Avoid getting any liquid or moisture in the test strip vial. This can affect the

Do not apply samples other than capillary whole blood or control solution to

Close the vial tightly after taking out a test strip for testing and use the strip

For detailed storage and usage information, refer to the CareSens S test strip

Keep the meter and testing supplies away from young children

07 CareSens S Fit BT Blood Glucose Meter

Drying agents in the vial cap may be harmful if inhaled or swallowed and

CareSens S Fit 0

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S

The cable for data management software can be ordered separately. Please

The unit of measurement is fixed and it cannot be changed by the user.

08 CareSens S Fit BT Blood Glucose Meter Display

the memory are displayed

⑦ Control Solution flag: appears when the control solution test results are

(9) Hi: appears when the test result is greater than the selected hyperglycemia

(10) Smile symbol: appears when the test result is within the selected normal

1) Lo: appears when the test result is lower than the selected hypoglycemia

(6) Fasting test flag: used for tests done after fasting for at least 8 hours

® Battery symbol: indicates meter battery is running low and needs to be

(B) Blood insertion symbol: indicates meter is ready for the application of a

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

® KET symbol: appears when the test result is greater than 13.3 mmol/L

(5) Bluetooth Symbol

② alarm: appears when the time alarm has been set

3 mmol/L, mg/dL: unit for measuring blood glucose

4 Pre-meal test flag: used for tests done before eating

(5) Post-meal test flag: used for tests done after eating

Month/Day/Hour/Minute: appears date and time

drop of blood or control solution

O Note

1) Test results: test results displaying panel

③ Setting symbol: appears when in SET mode

② Memory symbol: appears when test results stored in

4 PP2 alarm: appears when the post-meal alarm has

6 Mute symbol: appears only when the sound is set

contact your authorised i-SENS sales representative.

blood samples.

Do not reuse test strips

handling methods.

immediately.

package insert.

⚠ Caution

Data Port

Used to transfer

data from the

∢,▶ Button

information

Turns the meter on.

selects or changes

Test Strip Port

O Note

Insert test strip here

234567 D-■**0** * M d

saved or displayed

blood glucose range

meter to a computer with a

cable

may cause skin or eye irritation

10–90 % relative humidity.

Do not use test strips past the expiration date.

Store test strips only in their original vial.

test strips and cause inaccurate test results.

Handle test strips only with clean and dry hands.

Do not bend, cut, or alter test strips in any way.

sample has been applied

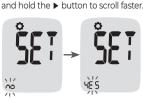
Tip to apply blood sample

Gently push the test strip, with its contact bars

facing up, into the test strip port of meter

Check here to see whether sufficient blood

Press and hold the **S** button for 3 seconds to enter SET mode. After all settings are finished, press and hold the S button for 3 seconds to turn off the meter. Press the ◀ or ▶ button to change values. Press



Step 1 Entering the SET Mode

Press and hold the **S** button for 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 **S** button to go to the next

If you do not want to connect your meter to your smartphone, press the **S** button when the screen display 'bT' while 'OFF' is blinking on the botton of the screen. Then, the meter will go to Step 4 Adjusting the Date and Time mode.

O 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

Setting Up Bluetooth

Step 2 Bluetooth Pairing

① Smartphone: If you want to pair (connect) your meter to your smartphone launch the SmartLog mobile app and find the Accessories menu on your

② Smartphone: Select the CareSens S Fit model from the meters list, and then tap Bluetooth Register > Next.

7

Display

messages

S Button

Turns the meter

menu selections,

on/off, confirms

and changes

Shows results and

3 Meter: With your meter turned off, press and hold the button for three seconds to enter pairing mode. The Bluetooth symbol and 'bT' will appear and 'YES' will blink at the bottom of the screen. Press the **S** button to select



(a) Smartphone/Meter: Tap 1 on your smartphone to set the Bluetooth pairing type setting while Bluetooth symbol and 'tYPE 1' are displayed on the meter's screen.



⑤ Smartphone/Meter: Follow the on-screen instructions on SmartLog mobile app to begin searching your meter. Look for 'CareSens' 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 (CareSens XXXX) on the SmartLog mobile app

Some content or menus may differ depending on your smartphone's

O Note

operating system or SmartLog version. Step 3 Entering the PIN number



① **Meter/Smartphone**: The **≯** symbol and 6-digit PIN number will appear on the meter's screen





3 Meter: When your meter and smartphone are paired and connected, the meter will display 'SYNC' and the saved test results will be transferred to your smartphone.





 Meter: When the data transfer is finished, the meter will be display 'End' on the screen and it will be automatically turned off after 3 seconds If the data transfer is failed, the meter will display 'FAIL'

3 seconds. Then, repeat Step 2 to 5 to connect your meter

and it will be automatically turned off after

Note 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 OR code on the back cover of this user manual.

Step 4 Adjusting the Date and Time



with smartphone.

Press the ◀ or ▶ button to adjust the date and time. Following images will appear in order of year, month, date, time format, hour, and minutes. Press the **S** button to confirm your selection and to go to the next step.

10 Setting the Sound On/OFF

On pressing the ◀ or ▶ button, the screen will display 'On' or 'OFF'. Press the **S**



meal (PP2) alert,

- 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-
- When it is time for a pre-set blood glucose test. If the sound is set to OFF, none of the sound functions will
- After setting the sound, press the S button to go to the next step.

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

11 Turning on the Strip Expiration Date Indicator

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 14 to set the strip expiration date. When 'EP' appears on the screen, press the \blacktriangleleft or \blacktriangleright button. The screen will display 'On' or 'OFF'. Press the S button to confirm the setting. If you do not want to set the indicator, press the S button while the screen displays 'OFF'



O 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 2025, the meter will display 'EP' at the beginning of

D F L) _((2:30∞

12 Setting the Hypoglycemia (Lo) Indicator



This setting allows you to select the desired level for the hypoglycemia indicator (possible low blood sugar). You will be alerted any time your test result is lower than the selected level. Press the ◀ or ▶ button until the desired hypoglycemia level between 1.1 and 5.0 mmol/L appears. Then, press the S button to confirm the level and to go to the next step.

O Note

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



/!\ Caution

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

13 Setting the Hyperglycemia (Hi) Indicator



This setting allows you to select the desired level for the hyperglycemia indicator (possible high blood sugar). You will be alerted any time your test result is higher than the selected level. Press the ◀ or ▶ button until the desired hyperglycemia level between 6.7–19.4 mmol/L appears. Press and hold the **S** button to confirm the hyperglycemia level and turn the meter off.

0504 (2:31... 0504 (2:31...

ONote

If the test result is greater than the preset hyperglycemia level, the meter will display 'Hi'

13.4 and 33.3 mmol/L, 'KET' will blink three times on the screen

when and how you should test for ketones.

O Note

If your blood glucose is measured to be more than 13.3 mmol/L, you may also have ketones. The CareSens S Fit BT meter is not intended to detect ketones.

!\ Cautior Ask your healthcare professional to help you decide what your hyperglycemia level is before setting your level.

If you see 'KET' displayed on your meter, ask your healthcare professional

Note

If the test result is within the selected normal blood glucose range, the smile symbol will be displayed as shown.

☺

14 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.

O 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

Press the **S** 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 ▶ Press button until the correct month appears. Press and hold the **S** button for 3 seconds to confirm the month and turn off the meter.

15 Checking the System



2025 10

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

O Note

- Use only the CareSens S 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, discard the first few drops and wipe the tip clean. Close the control solution bottle tightly and store at a temperature between

You may do a control solution test:

When you want to practice the test procedure using the control solution nstead of blood,

feel that the meter or test strips are not working properly,

- 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

If you drop or damage the meter.



Step 1 Inserting Test Strip

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 The **or an arrange of the streen in the screen.**



0504 IZ:37...

Step 2 Activating Control Solution Test Mode You can flag the control solution test result by pressing and holding the ▶ button for 3 seconds. To undo the control solution flag, press and



Step 3 Applying Control Solution to Test Strip

hold the \blacktriangleright button for 3 seconds again.

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 tip of the test strip until the meter beeps. Make sure the confirmation window fills

O Note The meter may switch off if the control solution sample is not applied within 2 minutes of the screen. If the meter turns off, remove the strip, reinsert, and start from step 1.

Step 4 Waiting for the Result The display segments will rotate clockwise and a test result will appear after the meter counts down from 6 to 1. When flagged, the result is stored in the meter's memory but it is not included











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

Note

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

Comparing the Control Solution Test Results

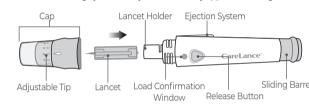
The test result of each control solution should be within the range printed on the label of the test strip vial. Repeat the control solution test if the test result falls outside of the range. Out of range results may occur in following situations:

Situations	Do This
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 Note on page 17.
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 S Test Strip and CareSens S Fit BT meter may not be working properly. Do not use your system and contact Spirit Healthcare 24/7 Freephone Support Line at 0800 881 5423.

16 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 CareSens S Fit BT 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
- 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

Preparing the Lancing Device

O Note

Note

1 = least penetration of lancet into the skin

7 = most penetration of lancet into the skin

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

Wash hands and sample site with soap and warm

nscrew and remove the lancing device tip.

Firmly insert a new lancet into the lancet

holder. Hold the lancet firmly. Gently twist

o pull off protective disk. Save disk to recar

Turn the adjustable tip until it is aligned with the

load confirmation window and release button

The lancing device has seven puncture depth

puncture, 7 for a deeper puncture).

settings, numbered 1 through 7 (1 for a shallow

adjustable tip until the desired number aligns

Choose a depth by rotating the top portion of the

as shown.

with the arrow.

lancet after use. Replace lancing device tip.

water. Rinse and dry thoroughly.



Step 7

penetration to get an adequate sample size.

test strip. The symbol will appear on the screen.

Preparing the Meter and Test Strip

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

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

size of 0.5 µL: ●).

After the symbol appears on the screen, apply the blood sample to

the tip of the test strip till the meter beeps. At this time, the display segments

not filled in time because of abnormal viscosity (thickness and stickiness) or

insufficient volume, the Er4 message may appear

Do not apply blood on top surface of the test strip.

/ Caution

/!\ Caution

will rotate clockwise while the blood is going in. If the confirmation window is

It is recommended to place the test strip vertically into the blood sample site as

Do not allow any foreign substances, such as dirt, blood, or water enter into the

meter. The meter may be damaged or may malfunction. Follow the warning

Do not apply the blood sample to the test strip while holding the meter in a

way that the tip of the test strip faces upwards. The blood sample may run

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.

information provided below to prevent possible damage to the meter.

down the surface of the test strip and flow into the test strip port.

Do not apply the blood sample directly to the test strip port.

Do not store your meter in unsanitary or contaminated sites.

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 $confirmation \ window turns \ red.$

Obtain a blood sample using the lancing device.

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

Place the device against the pad of the finger. Press the release button. Remove the device from



Push the lancet ejector forward with the thumb to dispose of the used lancet in a proper biohazard container.

Stick the lancet into the saved protective disk



Caution

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

17 HI and Lo Messages

05:04 I2:31_m

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 indicate severe hyperglycemia (much higher than normal glucose levels). If 'HI' is displayed again upon retesting, please contact your healthcare professional immediately.

05-04 (2:30~

'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 <u>www.spirit-healthcare.co.uk</u>, if such messages are displayed even if you do not have hyperglycaemia or hypoglycaemia.

18 Target Blood Glucose Ranges

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.

American Diabetes Association (Standards of Medical Care in Diabetes – 2021.

19 Transferring Test Results



Test results stored in the CareSens S Fit BT 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

The CareSens S Fit BT 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

30, and 90 days.

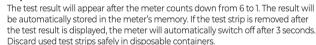
Diabetes Care), January 2021, vol. 44 (Supplement 1): S15-S33.



20 Meter Memory

The meter calculates and displays the averages of total test results, Pre-meal (test results, Post-meal test (ight)), and Fasting test results (ight)) from the last 1, 7, 1-

Viewing Averages Stored in Memory









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 (🕇), or a fasting flag (🏵). When you remove the test strip while the desired flag is blinking, the test result is stored with the flag.

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













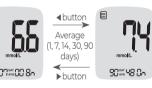
Unscrew the lancing device tip.



of tests
within the within the

The number

The current date and time will be displayed at Press the \blacktriangleleft , \blacktriangleright or **S** button to turn the meter 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



Step 2 Viewing Averages Press the **d** button to view the average values of 7, 14, 30 and 90 days and the number average values of Pre-meal, Post-meal or fasting, each

be appeared on the screen with the average values and the number of tests

Use the ▶ button to scroll back through the averages seen previously. Press the **S** button to turn off the meter.

O Note

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

Viewing Test Results Stored in Memory



The number of tests within 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 requires current day average value and the number of the test results saved within the current day.

Press the **S** button to finish and to go to 'alarm 2' setting.

Press the ▶ button to set the hour.



Step 2

Setting the Time Alarms (alarm 1-3)

ÒFF 12:00™

Repeat steps 2 to 4 to set the remaining alarms time (alarm

Without inserting a test strip, press ◀ and the **S** button

On pressing the ▶ button, the 'alarm 1' is set and 'On' is

A number representing the hour will blink on the screen.

On pressing the \blacktriangleleft button, the number indicating the

minute will start blinking. Press the ▶ button to set the

the 'alarm 1'. The 'OFF' will blink on the screen.

Press the ◀ button to set the time of 'alarm 1'.

displayed on the screen. Press the ▶ button again to cancel

simultaneously for 3 seconds to enter the time alarm mode. The 'alarm 1' will be displayed while the 'OFF' is blinking on

Step 4

Press and hold and hold the S button for 3 seconds to finish and turn the meter

22 Understanding Error 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 appeared. → Repeat the test with a new test strip and wait until the

appears before applying the blood or control solution sample



The temperature during the test was above or below the operating range. → Move to an area where the temperature is within the

operating range (5–45 $^{\circ}$ C) and repeat the test after the meter and test strips have reached a temperature within the operating range.



The blood sample has abnormally high viscosity or insufficient volume. → Repeat the test with a new test strip.

through the test results, starting

from the most recent and ending

with the oldest. Press the ◀

seen previously. After checking

the stored test results hold the S

button to return to the result

button to turn off the meter.

♦button

symbol when you review the stored test results

21 Setting the Alarm Function

Setting the Post-meal Alert (PP2 alert)

by pressing the \blacktriangleleft , \blacktriangleright or $\bf S$ button or by inserting a test strip.

The control solution test results saved with 🖟 symbol will be displayed with 🦍

Four types of alarms can be set in the CareSens S Fit BT meter: one post-meal

alert (PP2 alert) and three time set alarms (alarm 1–3). The PP2 alert goes off 2

hours after setting the alert. The alarms ring for 15 seconds and can be silenced

The PP2 alert 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 alert

Step 1 Turning the PP2 alert On

Without inserting a test strip, press

and hold the ◀ button for 3 seconds to

set the post-meal alert. '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

alert has been set, will be displayed on

Step 2 Turning the PP2 alert OFF

To turn off the PP2 alert, press and hold

the screen. Then the screen will change

automatically to the memory recall mode

the ■ button for 3 seconds, 'PP2', bell

() symbol and 'OFF' will appear on

without bell () symbol displayed.

O Note

(0^) (0:30**

This error message may appear when the wrong blood glucose test strip is used instead of CareSens S Blood Glucose Test Strip.

→ Repeat the test with a CareSens S test strip.

There is a problem with the meter. Contact the Spirit Healthcare 24/7 Freephone Support

Line at 0800 881 5423 or go to www.spirit-healthcare.co.uk.



There is a problem with Bluetooth communication. → Contact the Spirit Healthcare 24/7 Freephone Support Line at 0800 881 5423 or go to www.spirit-healthcare.co.uk.



An electronic error occurred during the test. → 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.

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

23 General Troubleshooting

Problem	Troubleshooting
The display is blank even after inserting a test strip.	 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 battery is inserted with the + side facing up. Replace the battery.
The test does not start even after applying the blood sample on the strip.	 Check if the confirmation window is filled completely. Repeat the test with a new test strip.
The test result does not match the way	Repeat the test with a new test strip.Check the expiration date of the test strip.

Note

you feel.

If the problem is not resolved, please contact the Spirit Healthcare 24/7 Freephone Support Line at 0800 881 5423 or go to

Perform control solution test.

24 Performance Characteristics

The performance of CareSens S Fit BT Blood Glucose Monitoring System has been evaluated in laboratory and in clinical tests.

Accuracy: The accuracy of the CareSens S Fit BT Blood Glucose Monitoring System (Model: GM01NBE) 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	0.998
Y-intercept	0.130 mmol/L
Correlation coefficient (r)	0.9962
Number of samples	600
Range tested	1.5-24.8 mmol/L

System accuracy results for glucose concentration < 5.55 mmol/L

±0.28 mmol/L	±0.56 mmol/L	±0.83 mmol/L
118/180 (65.6 %)	172/180 (95.6 %)	180/180 (100 %)

298/420 (71.0 %) 403/420 (96.0 %) 417/420 (99.3 %) System accuracy results for glucose concentrations between 1.5 mmol/L and 24.8 mmol/L

Within ±0.83 mmol/L and Within ±15 %
597/600 (99.5 %)

Precision: The precision studies were performed in a laboratory using CareSens S Fit BT Blood Glucose Monitoring Systems.

***************************************	The man teacher		
	2.0 mmol/L	SD = 0.1 mmol/L	
	3.8 mmol/L	SD = 0.1 mmol/L	
Blood average	7.5 mmol/L	CV = 3.0 %	
	11.8 mmol/L	CV = 2.6 %	
	16.5 mmol/L	CV = 3.0 %	

2.3 mmol/L $SD = 0.1 \, \text{mmol/L}$ Control solution average 7.2 mmol/L CV = 2.3 % 19.7 mmol/L CV = 3.7 % This study shows that there could be variation of up to 3.7 %.

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 %.

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)	1.32 mmol/L
2	Ascorbic acid	0.17 mmol/L
3	Bilirubin (Unconjugated)	0.34 mmol/L
4	Cholesterol	12.93 mmol/L
5	Creatinine	2.65 mmol/L
6	Dopamine	0.85 mmol/L
7	EDTA	6.16 mmol/L
8	Galactose	3.33 mmol/L
9	Gentisic acid	3.24 mmol/L

No.	Interferent	Concentration
10	Glutathione (Red)	2.99 mmol/L
11	Hemoglobin	0.31 mmol/L
12	Heparin	8000 U/dL
13	Ibuprofen	2.42 mmol/L
14	Icodextrin	1094 mg/dL
15	L-Dopa (L-3,4-dihydroxyphenylalanine)	0.25 mmol/L
16	Maltose	29.21 mmol/L
17	Methyl-DOPA	0.07 mmol/L
18	Pralidoxime Iodide (PAM)	0.95 mmol/L
19	Sodium Salicylate	5.07 mmol/L
20	Tolbutamide	3.70 mmol/L
21	Tolazamide	3.21 mmol/L
22	Triglycerides	37.26 mmol/L
23	Uric acid	1.49 mmol/L
24	Xylose	19.98 mmol/L

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 97.2 % within ± 15 % of the medical laboratory values at glucose concentrations at or above 5.55 mmol/L.

25 Warranty Information

Manufacturer's Warranty

i-SENS, Inc. warrants that the CareSens S Fit BT 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 i-SENS

i-SENS, Inc. 43, Banpo-daero 28-gil Seocho-gu, Seoul 06646, Korea www.i-sens.com

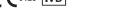
Spirit Healthcare Ltd. Spirit House, Saffron Way, Off Saffron Lane, Leicester, LE2 6UP

Customer Support Tel: 0800 881 5423 EC REP Medical Technology Promedt **Consulting GmbH** Altenhofstrasse 80 66386 St. Ingbert, Germany

www.spirit-healthcare.co.uk **B**0800 881 5423

spirit













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not match the way

www.spirit-healthcare.co.uk.

110/100 (03.0 70)	172/100 (93.0 %)	180/180 (100 %)		
System accuracy results for glucose concentration ≥ 5.55 mmol/L				
Within ±5 %	Within ±10 %	Within ±15 %		

Within Run Precision				
	2.0 mmol/L	SD = 0.1 mmol/L		
	3.8 mmol/L	SD = 0.1 mmol/L		
Blood average	7.5 mmol/L	CV = 3.0 %		
	11.8 mmol/l	CV=26%		