



Continuous Glucose Monitoring System
Instruction For Use



CE 0197



System Description

Thank you for choosing the LinX Continuous Glucose Monitoring System (hereafter referred to as CGM). The LinX CGM System consists of two devices: a Continuous Glucose Monitoring System Sensor and a Continuous Glucose Monitoring App.

The LinX CGM provides real-time glucose levels and allows you to continuously view your sensor glucose values on your selected mobile device. The system tracks your glucose every minute by measuring the amount of glucose in the interstitial fluid. A sensor, inserted in your skin, sends glucose results to the LinX Continuous Glucose Monitor System APP (CGM APP).

The APP then displays your glucose levels and long-term glucose trends. The APP also provides alerts if your glucose is in or projected to be in an unsafe zone.

The LinX CGM also detects trends and tracks patterns and aids in the detection of episodes of hyperglycemia and hypoglycemia, facilitating both acute and long-term therapy adjustments. Interpretation of the system results should be based on the glucose trends and several sequential results over time.

Note: Please read all the instructions provided in this Instruction for Use before using the system.

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1. Important information

1.1 Indications for use

The Continuous Glucose Monitoring System sensor is a real-time, continuous glucose monitoring device. When the system is used together with compatible devices, it is indicated for the management of diabetes in adults (age 18 and older). It is designed to replace finger stick blood glucose testing for diabetes treatment decisions. Interpretation of the system results should be based on the glucose trends and several sequential readings over time. The system also detects trends and tracks patterns, and aids in the detection of episodes of hyperglycemia and hypoglycemia, facilitating both acute and long-term therapy adjustment.

1.1.1 Intended Purpose

Continuous Glucose Monitoring System Sensor: When the Continuous Glucose Monitoring System Sensor is used together with compatible software application, it is intended to continuously measure the glucose in the interstitial fluid and is designed to replace fingerstick blood glucose (BG) testing for treatment decisions.

Continuous Glucose Monitoring App (iOS/Android): When the Continuous Glucose Monitoring App is used together with compatible sensors, it is intended to continuously measure the glucose in the interstitial fluid and is designed to replace fingerstick blood glucose (BG) testing for treatment decisions.

1.1.2 Indications

- 1) Type 1&2 Diabetes Mellitus
- 2) Special types of diabetes (excluding monogenic diabetes syndromes , diseases of the exocrine pan-

- creas, and drug or chemical induced diabetes)
- 3) Abnormal blood glucose levels
 - 4) Patients requiring improved glycemic control
 - 5) People requiring frequent or continuous monitoring of blood glucose

1.2 Patients

Adult patients with diabetes (≥ 18 years old).

1.3 Intended user

The target users of this medical device are individuals aged 18 and above, who possess basic cognitive, literacy, and independent mobility skills. It is intended for both medical professionals and non-professional adults who need to continuously or periodically monitor their own or others' glucose levels.

1.4 Contraindications



The Continuous Glucose Monitoring System must be removed prior to Magnetic Resonance Imaging (MRI).

Don't wear your CGM sensor for computed tomography (CT) scan, or high-frequency electrical heat (diathermy) treatment.

Taking higher than the maximum dose of acetaminophen (e.g. > 1 gram every 6 hours in adults) may affect the CGMS readings and make them look higher than they really are.

The CGM System was not evaluated for the following persons:

- Pregnant women

- Peritoneal dialysis patients
- Patients with implanted pacemakers
- Patients with coagulation disorders or those taking anticoagulant drugs

1.5 Warning

- Don't wear your CGM sensor for computed tomography (CT) scan, or high-frequency electrical heat (diathermy) treatment.
- Don't wear your CGM while using electrocautery, electrosurgical units and diathermy equipment.
- The CGM System was not evaluated for the Peritoneal dialysis patients, Patients with implanted pacemakers and Patients with coagulation disorders or those taking anticoagulant drugs. Before you use the LinX System, review all the product instructions.
- The CGMS should not be used by Patients who have diffuse subcutaneous nodules.
- Before you use the LinX System, review all the prod-

uct instructions.

- The User's Manual includes all safety information and instructions for use.
- Talk to your health care professional about how you should use your Sensor glucose information to help manage your diabetes.
- Failure to use the System according to the instructions for use may result in you missing a severe low blood glucose or high blood glucose event and/or making a treatment decision that may result in injury. If your glucose alarms and readings from the System do not match symptoms or expectations, use a fingerstick blood glucose value from a blood glucose meter to make diabetes treatment decisions. Seek medical attention when appropriate.
- Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.
- Use of accessories, transducers and cables other

than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

- PORTABLE RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the [GX-01, GX-02, GX-01S and GX-02S], including cables specified by the MANUFACTURER. Otherwise, degradation of the performance of this equipment could result.
- After restarting your phone, please check again if Bluetooth is turned on. If it's turned off, please enable Bluetooth again to ensure real-time data transmission and notifications.
- Avoid areas:
 1. With loose skin or without enough fat to avoid muscles and bones.

2. That get bumped, pushed, or you lie on while sleeping.
 3. Within 3 inches of infusion or injection site.
 4. Near waistband or with irritations, scarring, tattoos, or lots of hair.
 5. With moles or scars.
- Android users, after enabling airplane mode, please double-check if Bluetooth is turned on. If it's turned off, please enable Bluetooth again to ensure real-time data transmission and notifications. iOS users don't need to consider this for the time being.

1.6 Precautions

- No modifications to the Continuous Glucose Monitoring System Sensor are allowed. Unauthorized modification of the CGMS may cause the product to malfunction and become unusable.
- Before using this product, you need to read the In-

struction Manual or be trained by a professional. No doctor's prescription is required for use at home.

- The CGMS contains many small parts that can be dangerous if swallowed.
- During rapid changes in blood glucose (more than 0.1 mmol/L per minute), glucose levels measured in interstitial fluid by the CGMS may not be the same as blood glucose levels. When blood glucose levels drop rapidly, the sensor may produce a higher reading than the blood glucose level; Conversely, when blood glucose levels rise rapidly, the sensor may produce a lower reading than the blood glucose level. In these cases, the sensor's reading is checked by a fingertip blood test using a glucose meter.
- Severe dehydration or excessive loss of water may result in inaccurate results. When you suspect you are dehydrated, consult a health care professional immediately.
- If you think the CGMS sensor reading is inaccurate or inconsistent with the symptoms, use a blood glucose meter to test your blood glucose level or

calibrate the glucose sensor. If the problem persists, remove and replace the sensor.

- The performance of the CGMS has not been evaluated when used with another implantable medical device, such as a pacemaker.
- Details of what interferences may affect the accuracy of the detection are given in “Potential Interference information”.
- The sensor loosens or takes off may cause the APP to have no readings.
- If a sensor tip breaks, do not handle it yourself. Please seek professional medical help.
- This product is waterproof and can be worn during showers and swimming, but do not bring sensors into water more than 2 meters deep for longer than 1 hour.
- While extensive user testing was done on LinX CGMS in Type 1 and Type 2 diabetic patients, the study groups did not include women with gestational diabetes.
- If the product is not working properly or has been

damaged, stop using the product.

1.7 Potential clinical side-effects

Like any medical device, the LinX CGMS has potential side effects. The most common side effects include Skin redness and Skin ulceration at the sensor insertion site.

1.8 Additional security information





- Physiological difference between interstitial fluid and capillary whole blood may cause difference in glucose readings. Differences between sensor glucose readings from interstitial fluid and capillary blood can be observed during periods of rapid changes in blood glucose levels, such as after eating, insulin doses, or exercise.
- If you are going to have a physical examination,


there is strong magnetic or electromagnetic radiation (for example, MRI or CT), remove your sensor, and install a new sensor after the inspection date. The impact of these procedures on sensor performance has not been evaluated.

- The sensor applicator is sterile in unopened and undamaged packages.
- Don't freeze the sensor. Do not use it after it expires.
- You are responsible for properly securing and managing your phone. If you suspect an adverse cyber security event related to the LinX app, contact Customer Service.
- Make sure that your phone and Sensor kit are kept in a safe place, under your control. This is important to help prevent anyone from accessing or tampering with the System.
- The LinX app is not intended for use on a phone that has been altered or customized to remove, replace or circumvent the manufacturer's approved configuration or use restriction, or that otherwise violates the manufacturer's warranty.

2. Product list

Product list: The continuous glucose monitoring system sensor is intended to be used together with CGM App as a system. The compatibility list is as follows:

| What you see | What it's called | Model Number | What it does |
|--|---|--|--|
|  <p>Glucose Sensor before insertion (Sensor applicator)</p> | Continuous glucose monitoring system sensor | GX-01 (For 15 days) GX-02 (For 10 days) | <ul style="list-style-type: none"> • The Sensor-Applicator helps you insert the Sensor under your skin. It contains a needle which is used to puncture the skin to introduce the flexible sensor tip into skin but will be retracted into the canister once the sensor is placed. • The Sensor is an applied part which is only visible after applied, the sensor measures and stores glucose readings when worn on your body. |
|  <p>Glucose Sensor after insertion</p> | | | |
|  <p>Glucose Sensor before insertion (Sensor applicator)</p> | | GX-01S (For 15 days) GX-02S (For 10 days) | |
|  <p>Glucose Sensor after insertion</p> | | | |

| What you see | What it's called | Model Number | What it does |
|---|-----------------------------------|--------------------------|--|
|  | Continuous Glucose Monitoring App | RC2107 (For iOS) | It is an application available on your phone used to receive and display the glucose concentration value and remind when the blood glucose value exceeds the upper or lower limit of the preset blood glucose value. It also has system Settings and other functions to help users analyze and evaluate the glucose reading of the continuous glucose monitoring system and form a report. |
| | | RC2109 (For Android) | |

Each model of sensor can be used in conjunction with any model of the APP.

3. Apps and Software

3.1 Software Download

You can download the LinX App from Apple APP Store or Google Play. Please check the Operating System (OS) on your mobile device to make sure you get the correct App version.

3.2 Minimum Requirements for Software Installation

iOS

Model No.: RC2107

Operating System (OS): iOS 14 and above

Memory: 2GB RAM

Storage: Minimum 200 MB

Network: WLAN (Wireless Local Area Network) or cellular network, as well as Bluetooth function

Screen Resolution: 1334 x 750 pixels

Android

Model No.: RC2109

Operating System (OS): Android 10.0 and above.

Memory: 8GB RAM

Storage: Minimum 200 MB

Network: WLAN (Wireless Local Area Network) or cellular network, as well as Bluetooth function

Screen Resolution: 1080*2400 pixels and above

Note

- To receive alerts, make sure:
 - Turning on the Alert function.
 - Keeping your mobile phone and CGMs equipment within 2 meters (6,56ft) maximum. If you want to receive alerts from the app, make sure your device is connected.
 - Do not force-quit LinX that must be running in the background to receive alerts. Otherwise, alerts can not be received. If alerts are unavailable, restarting the application may help you.
 - Check to make sure that you have the correct phone settings and permissions enabled. If your phone is not configured properly, you will not receive alerts.
- When you are not using headphones or speakers, you should take them off your smartphone, otherwise, you may not hear the alert. When you use headphones, put them in your ears.
- If you use a peripheral connected to your smartphone, such as a wireless headset or smart watch, you may receive alerts on only one device or peripheral, rather than all devices.
- Your smartphone should always be charged and turned on.
- Open the application after the operating system is updated.

3.3 IT Environment

Do not use the APP when the Bluetooth function is turned off, in a complex Bluetooth environment or a high electrostatic discharge environment, otherwise it will cause the data reading failure of the continuous glucose detection system. Because Bluetooth will have communication barriers in complex Bluetooth environments or high electrostatic discharge environments, users need to ensure that they stay away from complex Bluetooth environments or high electrostatic discharge environments, and ensure that the Bluetooth function is turned on. No other external software or applications have been found to cause critical defects. Using in an environment with poor communication may cause signal loss, connection interruption, incomplete data, and other issues.

4. LinX App Overview

4.1 CGMS Service Life

The app will cease maintenance five years after the final batch of CGMS devices is discontinued from the market. During the maintenance period, it is necessary to ensure the normal operation of the servers, and the interactive functions related to CGMS devices should not be affected.

4.2 APP Setup

4.2.1 Software Registration

If you do not have an account, click the “Register” button to enter the registration screen. Please input your email address and password. Read the Terms of Use and Privacy Policy before ticking the box. By ticking

the box, you agree to comply with the Terms of Use and the Privacy Policy. Click “Send verification code to my email” to receive a six-digit code. After keying in the verification code, click “Continue” to complete your registration. The rules for setting a username and password are:

Username:

- ✓ Use your email address as your username.

Password:

- ✓ Password must contain at least 8 characters.
- ✓ Password must contain 1 capital letter, 1 small letter and 1 numerical number.

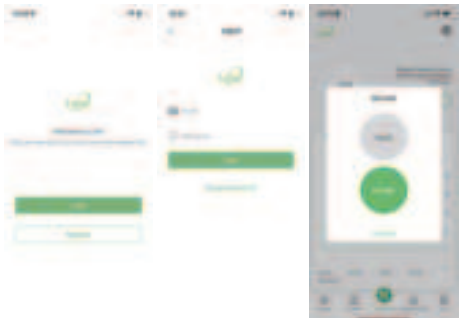


4.2.2 Software Login

Use your registered account email address and Password to log in to the App.

Note

- You may only log in to your account on one mobile device at a time.
- You are responsible for properly securing and managing your phone. If you suspect an adverse cybersecurity event related to the LinX app, contact a local distributor. Make sure that your phone is kept in a safe place, under your control. Do not disclose your password to others. This is important to help prevent anyone from accessing or tampering with the System.
- It is recommended to use the protection system of your mobile phone, such as lock screen password, biometrics, to strengthen the data protection of the APP.



Attention

Make sure that you choose the right measurement unit (mmol/L or mg/dL). Consult with your healthcare professionals to decide which measurement unit that you should use.

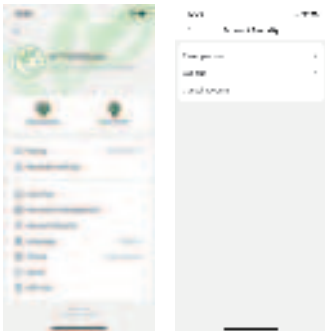
Attention

If login fails, this account may be logged in from other equipments. Please try again.



4.2.3 Software Logout

To log out of the current account, click “Log out” under “Account Security” on the “Personal Center” page.



4.2.4 Software Update

Please ensure that your application software is the latest version. Keep the network environment stable during the upgrade process, if the upgrade fails, please uninstall the application and reinstall it.

4.3 Functions

4.3.1 Home Dashboard

Home dashboard displays the overview of your blood glucose levels.

In the upper section of the dashboard, the real-time blood glucose level is displayed (updated every minute).

In the lower section of the dashboard, the blood glucose against time graph is displayed. You can



select the time interval to see the glucose level history and trend in the past 6 hours, 12 hours or 24 hours.

Scroll the plot to view blood glucose levels over different periods. The data point gives you the blood glucose value and the time of measurement (updated every minute).

When your sensor expires, the sensor status on the LinX App will also change to “expired”. Please replace the used sensor.

Note

When “Sensor is stabilizing” or “Sensor Error Please wait ...” appears on the Home Dashboard, the user needs to wait patiently.

When “Replace sensor” appears on the Home Dashboard, the user needs to replace the sensor with a new one.

There is no need to unpair the sensor when replacing the sensor.

4.3.2 History Dashboard

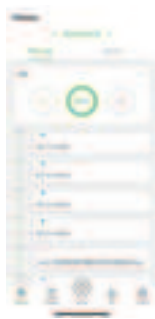
History dashboard displays glucose alert records, events, as well as glucose data each day.

1. When the sensor blood glucose level is lower/higher than the pre-set alert value, the App will alert you every 30 minutes about your glucose levels. The alert and the time it took place are displayed in the History dashboard.

2. The events you added will be displayed in the History dashboard.

3. The glucose levels recorded in the “Home” screen will be displayed in the History dashboard.

4. Click “All”, “Alerts” or “Other” to access different types of records.



4.3.3 Trends Dashboard

The Trends dashboard displays the blood glucose analysis results, which displays the various analysis results over a certain period (Last 7 days, Last 14 Days, Last 30 Days, or your customized interval).Different periods can be switched to display.

1.Display Estimated HbA1c, Average Glucose Value, Time in Range, AGP profile, Multi-day Bg curves and Low BG Index over a period of time.

2.Multi-day Bg curves: Users can freely select different dates to compare the daily blood glucose curve.

3.Generate and share AGP reports.



Note

Please consult your healthcare professionals for the interpretation of the above parameters.

4.3.4 Blood Glucose (BG) Dashboard—Calibration

In the Blood Glucose (BG) dashboard, you can calibrate the CGMS and record the reference blood glucose level for sensor calibration.

You can take regular or irregular finger blood glucose measurements while wearing this product. However, it is recommended to take a finger blood test to confirm your BG level in the following situations:

- 1) When you perceive symptoms of hypoglycemia such as palpitations, hand tremors, tremors, sweating, but the BG reading of your device is still normal.
- 2) When the reading indicates hypoglycemia (low

blood glucose) or close to hypoglycemia (high blood glucose).

3) When you expect a large gap between your blood glucose and CGM readings based on past experience. If the current reading of this product is more than 20% higher or lower than the finger blood measurement, please take the finger blood measurement again after 2 hours, and if the second measurement is still more than 20% higher or lower, you can calibrate the current sensor.

If you choose to calibrate, please make sure that you have not taken carbohydrates or insulin injections in the 15 minutes prior to calibration, and that your current blood glucose trend is not rising or falling rapidly (you can check the current blood glucose trend by looking at the trend arrow shown on the homepage of LinX APP). The blood glucose value entered for calibration should be the finger blood glucose value

measured within 5 minutes. If your current blood sugar trend is rising or falling rapidly, please wait for the blood sugar change to stabilize before taking a finger blood measurement and calibrating the product.

In the Blood Glucose (BG) dashboard, there are two functions “Calibration” and “Recording”.

1.Click “Record” to enter the glucose value measured (from blood glucose meters or by your healthcare professionals). The record will be displayed on the Home and History dashboard.

2.When the glucose value measured from other channels is different from the sensor glucose level displayed in the Home dashboard, the user can manually input the calibration glucose level to calibrate the sensor.



Note

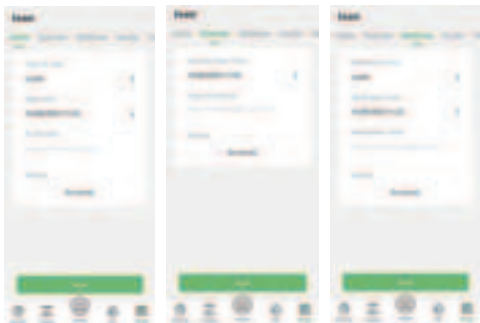
Do not calibrate the system frequently afterward. Do not calibrate while your blood glucose is rising or falling rapidly. The glucose value used for calibration should be the value measured no earlier than 1 minute before the blood glucose test.

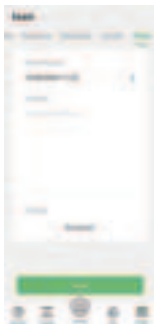
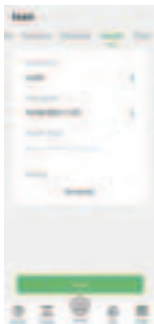
Scroll the slider to input your blood glucose test value. Once you have selected the right value, click “Calibrate” to complete the calibration.

4.3.5 Events Dashboard

The LinX CGMS system allows you to log and track events that can affect your blood glucose level.

1. You can note down different types of events including “Carbs”, “Exercise”, “Medicine”, “Insulin” and “Other” on the top of the Event dashboard.
2. You can record the time that the event occurred.
3. The added events will also be displayed in the History dashboard.
4. The recorded events are uploaded to the Cloud Services. You can access the event history on the Cloud by using your LinX App account.





5.Using a New Glucose Sensor

5.1 Applying Your Sensor

Caution

During intense exercise, your sensors may fall off due to sweat or sensor movement. If your sensors come off your skin, you may not get any readings, or only unreliable readings that are inconsistent with your health. Select the appropriate application site according to the instructions.

Note

Click Help in the main menu to enter the tutorial in the application that explains how to install the sensor.

1. Recommended areas for sensor application include the outside and the back of the upper arm. Avoid areas with scars, moles, stretch marks or lumps. For best performance, avoid excessive motion which may weaken the sensor and its adhesive tape. Avoid accidental knocking off the sensor. Choose a skin area that is normally not affected by your usual daily activities (stretching or pressing). Choose a site at least 2.5 cm (1 inch) away from the insulin injection site. To avoid discomfort or skin irritation, you should choose a site different from the site you used last time.



2. Wash the smeared part with simple soap, dry it, and then clean it with alcohol pads. Remove any oily residue that may affect the adhesion of the sensor.

Note

The skin area must be clean and dry. Otherwise, the sensor will not stick to the skin.

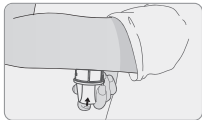


3. Remove cover from sensor applicator and set it aside.

Caution

- Do not use the sensor applicator if it is damaged or if the safety seal indicates that the sensor applicator is open.
- Do not reattach the sensor applicator, as this will damage the sensor.
- Do not grasp the inside of the sensor applicator, because there are needles here.
- Do not use it after it expires.

4. Align the opening of the applicator with the skin where you want to apply it and press it tightly on the skin. Then press the implantation button of the applicator, wait for a few seconds after hearing the sound of the spring retreating to make the sensor stick on the skin, and the puncture needle in the applicator will automatically retreat.



5. Gently pull the sensor applicator away from the body, and the sensor should now be attached to the skin.



Note

There may be bruises or bleeding when installing the sensor. If bleeding persists, remove the sensor and install a new sensor elsewhere.

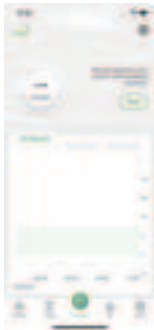
6. After installing the sensor, make sure that the sensor is firmly in place. Put the cover back on the sensor applicator.



5.2 Starting the sensor

Pairing a sensor

- Click “Pair” on the Homepage and select your sensor by searching for devices.



- Select and click your device, enter the SN print on the box label for confirmation or Scan the QR code.



Note

Please enable the Bluetooth function on your mobile device. The communication radius between your mobile device and sensor should be no more than 2 meters without obstacles. If pairing fails, a notification box will appear. Users can choose to retry or input the serial number again.

Sensor Warm-up

When you have successfully paired the sensor, you need to wait for one hour for your sensor to warm up. You will see the real-time glucose readings (updated every 1 minute) on the “Home” screen after the sensor warm-up has finished.

5.3 Unpairing a sensor

Enter “My Devices”, click the “Unpair” button. If unpairing fails, you can choose to delete the sensor permanently.



Note

Please make sure the LinX App is paired with the sensor before unpairing. If the sensor is not connected to the App, you may delete the sensor record permanently by clicking "Delete".

5.4 Removing a sensor

- 1.The sensor needs to be removed from the skin when the phone application prompts the sensor to expire or when the user feels any irritation or discomfort with the application area during use.
- 2.Pull up the edge of the adhesive that keeps your Sensor attached to your skin. Slowly peel away from your skin in one motion.

Note

1. Any remaining adhesive residue on the skin can be removed with warm soapy water or alcohol.
2. The sensor and sensor applicator are designed for single use. Reuse may result in no glucose readings and infection. Please dispose of the used sensor and sensor applicator in accordance with local regulations.

When you are ready to apply a new Sensor, follow the instructions in “Chapter 5.1 Applying Your Sensor” and “Chapter 5.2 Starting Your Sensor”.

5.5 Replacing the sensor

After 10 or 15 days of use, your sensor will automatically stop working and need to be replaced. In addition, if you notice irritation or discomfort at the application site, or if the application fails, you should replace your sensor.

Note

If the glucose reading on the sensor does not appear to be consistent with your health, check the sensor for looseness. If the sensor tip is no longer in the skin, or if the sensor is loose from the skin, remove the sensor and install a new one.

6. Personal Settings

6.1 Reminder Settings

This section describes how to set up and use alerts. Read all the information in this section to make sure you receive glucose alerts when they are activated.

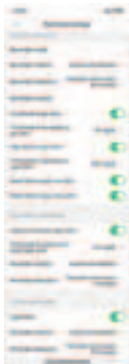
Note

To receive alerts, make sure:

- The alert is on, and your smartphone is always at the maximum distance of 2 meters (6.56 ft) away from you. The transmission range is 2 meters (6.56 ft) free environment. If you are outside the range, you may not receive the alerts. If you want to receive alerts from the app, make sure your device is connected.
- The application must be running in the background all the time to receive alerts.
- The App will ask for phone permissions which are needed to receive alerts.

Setting Alerts

In the Alerts dashboard, you can set up alerts. You can set the values for high glucose alerts, low glucose alerts and urgent low alerts. High glucose alerts, low glucose alerts, rapid increase alerts, rapid decrease alerts, urgent Low Glucose alerts and sensor signal lost alerts will appear as pop-up notifications. The records of high glucose alerts and low glucose alerts will also be displayed in History dashboard.



You will be alerted by notification when:

- Your glucose is too low.
- Your glucose is too high.

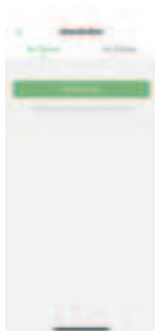
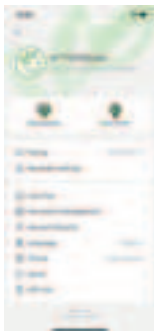
- Your glucose is decreasing rapidly.
- Your glucose is increasing rapidly.
- Sensor signal is lost.
- Urgent Low Glucose happens.

6.2 Share/Follow

Click the “Personal Settings” icon on the top right-hand corner, then click “Share/Follow” to set up glucose level data sharing.

Note

Blood glucose data is for your private use only. Please think carefully before sharing your data with other accounts. Please also keep the blood glucose data shared with others confidential.



6.3 Local Log

If software fault or other troubles occur, you can give a feedback to technicians by clicking “Local log”. The developers team will investigate the cause of the problem.



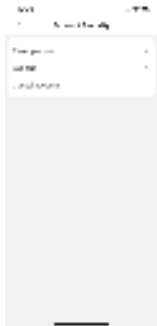
6.4 Permission Management

The app may require certain permissions, such as the Enable Bluetooth, Enable notifications, App refreshed on background, Album and Camera, in order to provide you with corresponding services.



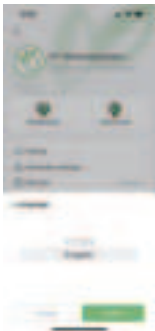
6.5 Account Security

On the Personal Settings page, click “Account Security” to access Reset Password, Log Out, and Delete Account functions.



6.6 Language

Click the “Personal Settings” icon on the top right-hand corner, then click “Language” to set up the LinX App language.

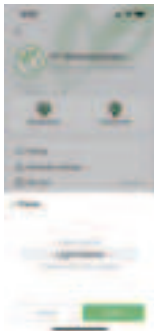


6.7 Theme

On the Personal Settings page, you can choose a light or dark style under “Theme”.

Note

Under iOS, there is an additional option “Follow with the system”, which allows you to follow the system’s theme.



7. Maintenance

The sensor has no components that need maintenance.

The company uniformly collates and evaluates whether software functionality needs to be improved. If a new version of the Software is available and can be upgraded directly online for users who have installed the Software, please **NOTE**:

- Sensor is a precision device. If failure is not serviceable, third-party individuals or institutions are not allowed to disassemble and repair, and circuit diagrams and component lists are not provided in the instructions.
- Mobile phone applications continue to improve to meet new requirements or problem resolution. Customer service, sales staff feedback on usage, and feedback to follow the prompts to complete the up-

grade when the Software prompts for an update.

- If the app update fails, you can uninstall the original app and install the latest one.

7.1 Cleaning

Sensors are disposable sterile products and do not require cleaning, disinfection, maintenance or maintenance.

7.2 Disposal

Sensor:

Please do not discard old products or accessories at will. The disposition of sensors and sensor applicators

should comply with the requirements of relevant local regulations for electronic devices, batteries and materials that may be exposed to body fluids. As Sensors may have been exposed to bodily fluids, you may wipe them prior to disposing. Please consult your local waste management authority for instructions on how to dispose Sensor Applicators at a designated place. Ensure the cap is on the Sensor Applicator as it contains a needle.

Note

Sensors contain non-removable batteries and must not be incinerated. Batteries may explode upon incineration.

7.3 Transportation

Sensor sterile packaging should prevent heavy pressure, direct sunlight and wet rain when transporting. It shall be transported in accordance with the storage and transportation conditions specified in the product. Avoid placing heavy weight on top of the sensor. Avoid direct sunlight and rain.

7.4 Storage

If you are temporarily not using the sensor system, store it in a cool, dry, clean, well ventilated, non-corrosive gas environment.

8. Troubleshooting

Data Lost

When the App is disconnected from the CGMS, please first check if the Bluetooth function in your mobile device has been turned on. If so, the pairing will be re-stored automatically. If the problem still persists, restart the App.

The App can recover data after restarting. After restarting, the saved App data will be restored automatically. All the saved but not displayed data can be displayed again. If the App fails to display blood glucose data, please restart the Bluetooth and re-pair the App and the corresponding sensor or contact MicroTech Medical.

Sensor Signal Lost

When the “Sensor Signal Lost” notification pops up, please check if you have turned off your Bluetooth. After turning on your Bluetooth function, the signal connection between the App and the sensor will be re-stored automatically. If the “Error” notification pops up, please restart the App or Bluetooth. The blood glucose data is temporarily stored in the sensor during signal loss. When the connection between the App and the sensor is restored, all relevant data will be transmitted to the App.

Fail to read data

Data reading failure can be caused by signal interference. Users are required to stay away from environments with strong electromagnetic interference or contact MicroTech Medical.

Note

When an abnormality occurs in the software, the user can click “Feedback” to upload the software log to the cloud, and the technical support staff will analyze and solve the problem.

9. Performance characteristic

Note

Please consult your healthcare team on how to use the information in this section.

Performance of the Sensor was evaluated in a controlled clinical study. The study was conducted in 3 centers and a total of 91 subjects ages 18 years and older with diabetes were included in the effectiveness analysis. Each subject wore up to two Sensors for up to 15 days on the back of the upper arm. During the study, subjects had their venous blood glucose analyzed over up to three separate visits to the clinical center using the Glucose and lactate measuring Instruments manufactured by EKF-diagnostic GmbH.

Clinical performance

- Accuracy

| Indicator | Result |
|--|--------|
| Mean Absolute Relative Difference(MARD%) | 8.66% |
| When glucose concentration $\geq 3.90\text{mmol/L}$ and $< 10.00\text{mmol/L}$ | |
| Results within a deviation range of $\pm 15\%$ from the reference value. | 87.2% |
| Results within a deviation range of $\pm 40\%$ from the reference value. | 99.8% |
| When the glucose concentration $\geq 10.00\text{mmol/L}$ | |
| Results within a deviation range of $\pm 15\%$ from the reference value. | 90.2% |
| Results within a deviation range of $\pm 40\%$ from the reference value. | 100.0% |
| When the glucose concentration $< 3.90\text{mmol/L}$ | |
| Results within a deviation range of $\pm 0.83\text{mmol/L}$ from the reference value. | 94.6% |
| Results within a deviation range of $\pm 2.22\text{ mmol/L}$ from the reference value. | 100.0% |
| The percentage of data points that fall within Clarke error grid zones A+B | 99.7% |
| The percentage of data points that fall within Consensus error grid zones A+B | 100.0% |

- **Alert rate**

The success rate of hyperglycemic alert: 89.4% (hyperglycemic alert threshold set at 11.1mmol/L);

The success rate of hypoglycemic alert: 89.3% (hypoglycemic alert threshold set at 4.4mmol/L).

- **Adverse event**

In the clinical trial, a total of 174 sensors were worn, and only three adverse events were possibly related to the product. The adverse events were characterized by local abnormalities in the area where the sensor was worn, but they resolved on their own without treatment.

10. Specifications

| Continuous glucose monitoring system sensor | |
|---|--|
| Item | Specification |
| Model number | GX-01; GX-02; GX-01S; GX-02S. |
| Operating temperature | 5-40°C (41-104°F) |
| Operating humidity | 10-93% (non-condensing) |
| Storage and transportation temperature | 2°C-25°C |
| Storage and transportation humidity | 10-90% (non-condensing) |
| Storage and transportation pressure | 700hPa~1060hPa |
| Ingress protection level | IP68 |
| Use life | GX-01/GX-01S: 15 days GX-02/GX-02S: 10 days |
| Shelf life | 16 months |
| Detection range | 2.0mmol/L-25.0 mmol/L |
| Wireless frequency and bandwidth | Frequency: 2.402GHz ~ 2.48 GHz Bandwidth: 1Mbps |
| Wireless modulation | GFSK |
| Radiated power | -2dBm |

| Continuous glucose monitoring App | |
|---|---|
| Item | Specification |
| Platform | iOS 14 and above, Android 10.0 and above. |
| Memory | 2GB RAM for iOS 8GB RAM for Android |
| Resolution | 1080*2400 pixels and above |
| Network | WLAN (Wireless Local Area Network) or cellular network, as well as Bluetooth function |
| Display | Real-time glucose value; glucose level history and trend in the past 6, 12 and 24 hours |
| Calibration | User can use the BG value for calibration |
| Alerts | Low blood glucose alert; High blood glucose alert; Rapid blood glucose rise alert; Rapid blood glucose drop alert; Urgent low blood glucose alert; Signal lost alert |
| Glucose Reading Update Interval | Every 1 minute |
| Data loading time | Within seconds |
| Server response time | Within seconds |
| Mobile phone storage Space | Minimum 200 MB |
| Data download time in 15-day monitoring session | Within seconds |
| Data transmission bandwidth | 8 M or above |

11. Electromagnetic compatibility

These devices are intended for use in the electromagnetic environment specified below. The customer or the user of the device should ensure that the device is used in such an environment.

Portable and mobile RF communication interference may have an impact on the device.

The device should not be used adjacent to or stacked with other equipment. If adjacent or stacked use is necessary, the device should be observed to verify normal operation in the configuration in which it will be used.

Electromagnetic interference can still occur in the home healthcare environment as control over the EMC environment cannot be guaranteed. An interference

event can be recognized by gaps in CGMS readings or gross inaccuracies. The user is encouraged to try to mitigate these effects by one of the following measures:

If your symptoms don't match your CGMS readings, use your BG meter when making treatment decisions. If your CGMS readings don't consistently match your symptoms or BG meter values, then talk to your health-care professional about how you should be using the CGMS to help manage your diabetes. Your healthcare professional can help you decide how you should best use this device.

The essential performance of this product is that within the measurement range, the glucose concentration measurement should meet the technical requirements for linearity and repeatability.


Guidance and manufacturer's declaration electromagnetic immunity

The device is intended for use in the electromagnetic environment specified below. The customer or the user of the device should ensure that it is used in such an environment.

| Emissions test | Compliance | Electromagnetic environment - guidance |
|--|----------------|---|
| RF emissions CISPR 11 | Group 1 | The device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment. |
| RF emissions CISPR 11 | Class B | The device is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply. |
| Harmonic emissions IEC 61000-3-2 | Not Applicable | Move to a place within the normal operating temperature range and repeat the test. |
| Voltage fluctuations/Flicker emissions IEC 61000-3-3 | Not Applicable | Repeat test. If you see the same result, contact your healthcare professional immediately. |

Manufacturer's Declaration – Electromagnetic Immunity

The equipment is intended for use in the electromagnetic environment specified below. The customer or the user of the equipment should assure that it is used in such an environment.

| Immunity test | Compliance Level | Electromagnetic environment - guidance |
|--|---|--|
| Electromagnetic discharge(ESD) (IEC61000-4-2) | ± 8 kV Contact ± 2 kV, ± 4 kV, ± 8 kV, ± 15 kV Air | Floors should be made of wood, concrete or ceramic tile that hardly produces static. If floors are covered with synthetic material that tends to produce static, the relative humidity should be at least 30%. |
| Power frequency (50/60 Hz) magnetic field (IEC 61000-4-8) | 30 A/m | Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment. |
| Proximity magnetic fields (IEC 61000-4-39) | 134.2 kHz, PM, 2.1 kHz, 65 A/m 13.56 MHz, PM, 50 kHz, 7.5 A/m | The sources of proximity magnetic fields should be used no closer than 0.15 m to any part of the product. |
| Radiated RF (IEC 61000-4-3) | 10 V/m 80 MHz ~2.7 GHz | Portable and mobile RF communications equipment should be used no closer to any part of the equipment, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the sensor. Recommended separation distance. $d=1.2\sqrt{P}$ $d=1.2\sqrt{P}$ 80 MHz to 800 MHz $d=1.2\sqrt{P}$ 800 MHz to 2.7 GHz where P is the maximum output power rating of the sensor in watts (W) according to the sensor manufacturer and d is the recommended separation distance in meters (m). Field strengths from fixed RF sensor, as determined by an electromagnetic site survey(a), should be less than the compliance level in each frequency range(b). Interference may occur in the vicinity of equipment marked with the following symbol:  |

Note :

1: At 80 MHz and 800 MHz, the higher frequency range applies.

2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

3: To establish the proximity threshold of 0.15 for Proximity magnetic fields, the IEC Subcommittee (SC) 62A considered the types of proximity magnetic field disturbance sources expected:

- induction cooking appliances and ovens operating at frequencies up to 30 kHz;
- RFID readers operating at both 134.2 kHz and 13.56 MHz;
- electronic article surveillance (EAS) systems;
- sponge detection systems;
- equipment used for position detection (e.g. in catheter labs);
- wireless power transfer charging systems for electrical vehicles that operate in the frequency range of 80 kHz to 90 kHz.

These frequencies and applications are representative examples based on sources of magnetic field disturbance in use at the time of publication of the collateral standard IEC 60601-1-2:2014+A1:2020.

a. Field strengths from fixed sensor, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcasts and TV broadcasts cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF sensor, an electromagnetic site survey should be considered. If the measured field strength in the location in which the equipment is used exceeds the applicable RF compliance level above, the equipment should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orientating or relocating the equipment.

b. Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Note

1. The continuous glucose monitoring system is tested according to the recommendation of IEC TS 60601-4-2:2024, medical electrical equipment - Part 4-2: Guidance and interpretation - Electromagnetic immunity: Performance of medical electrical equipment and medical electrical systems.
2. The performance in relation to the intended use of continuous glucose monitoring systems is Within the measurement range, the repeatability of glucose concentration measurements should meet the specified requirements.










Recommended minimum separation distances:















Nowadays, many RF wireless equipment are being used in various healthcare locations where medical equipment and/or systems are used. When they are used in close proximity to medical equipment and/or systems, the medical equipment and/or systems' basic safety and essential performance may be affected. This Systems has been tested with the immunity test level in the below table and meets the related requirements of IEC 60601-1-2:2014. The customer and/or user should help keep a minimum distance between RF wireless communications equipment and this Systems as recommended below:

| Test frequency (MHz) | Band (MHz) | Service | Modulation | Maximum power (W) | Distance (m) | Immunity test level (V/m) |
|----------------------|------------|---|---|-------------------|--------------|---------------------------|
| 385 | 380-390 | TETRA 400 | Pulse modulation 18Hz | 1.8 | 0.3 | 27 |
| 450 | 430-470 | GMRS 460 FRS 460 | FM ± 5 kHz deviation 1 kHz sine | 2 | 0.3 | 28 |
| 710 | 704-787 | LTE Band 13, 17 | Pulse modulation 217Hz | 0.2 | 0.3 | 9 |
| 745 | | | | | | |
| 780 | | | | | | |
| 810 | 800-960 | GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5 | Pulse modulation 18Hz | 2 | 0.3 | 28 |
| 870 | | | | | | |
| 930 | | | | | | |
| 1720 | 1700-1990 | GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS | Pulse modulation 217Hz | 2 | 0.3 | 28 |
| 1845 | | | | | | |
| 1970 | | | | | | |
| 2450 | 2400-2570 | Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7 | Pulse modulation 217Hz | 2 | 0.3 | 28 |
| 5240 | 5100-5800 | WLAN 802.11 a/n | Pulse modulation 217Hz | 0.2 | 0.3 | 9 |
| 5500 | | | | | | |
| 5785 | | | | | | |

12. Appendix

12.1 Symbols

| | |
|---|---|
| Refer to Instruction manual |  |
| Do not re-use |  |
| Type BF applied part |  |
| Temperature limit |  |
| Atmospheric pressure limitation |  |
| Humidity limitation |  |
| Single sterile barrier system with protective packaging outside using irradiation |  |
| <p>The level of protection against ingress of solid foreign objects is 6 (Protected against access to hazardous parts with a wire).</p> <p>The level of protection against ingress of water with harmful effects is 8 (Protected against the effects of continuous immersion in water).</p> |  |
| Consult the Electronic Instructions for Use at microtechmd.com |  microtechmd.com |

| | |
|---|---|
| Manufacturer |  |
| Importer |  |
| Authorised Representative in the European Community |  |
| MR unsafe |  |
| Do not use if package is broken |  |
| Date of manufacture |  |
| Use-by date |  |
| Batch code |  |
| Serial number |  |
| Waste Electrical and Electronic Equipment (WEEE) |  |
| Caution |  |
| Unique device identifier |  |
| Medical device |  |
| CE Mark |  |

12.2 Potential interference information

It has been studied that when users take normal doses of ascorbic acid or acetaminophen (ascorbic acid blood concentration $< 6\text{mg/dL}$, acetaminophen blood concentration $< 20\text{mg/dL}$), the drug will not interfere with the sensor glucose measurement. When the user's blood uric acid is significantly higher than the normal range (blood uric acid concentration $> 10\text{mg/dL}$ or $600\mu\text{mol/L}$), the uric acid in the body may produce interference current on the surface of the sensor electrode, which reduces the accuracy of the final glucose measurement. However, hydroxyurea has a significant impact on CGM measurement values. The error size depends on the actual concentration of the blood uric acid value. If the user feels that the current physical condition does not match the glucose readings ob-

tained by the Continuous Glucose Monitoring System or suspects that the measurements may be inaccurate, the blood glucose test can be performed using a finger blood glucose meter and corresponding management actions can be taken based on the test values. When using finger blood glucose meter, record your blood glucose values promptly after measurement to avoid forgetting or inaccuracies in the readings.

Any serious injury or death that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.

12.3 Potential Risks

- **Inaccurate glucose values**

Exposure to heat for a longtime may cause inaccu-

rate results.

- **Mild to severe to sensor related -wear reactions**

E.g. allergic reaction, moderate to severe itching, rash, erythema, bleeding, minor infection at the insertion site, discomfort during insertion.

- **Hyperglycemia or hypoglycaemia**

Hypo and Hyperglycemia events stemming from missed alerts or sensor inaccuracies.

12.4 Potential clinical benefit

The potential clinical benefits of the LinX CGM system are:

- Improved management of A1C and TIR for tighter glycemic control
- Shortened time spent in hypoglycemia and hyperglycemia
- Reduction in hypo and hyperglycemia events in diabetes patients

Glossary

Blood glucose meter

A device used to measure the levels of glucose in the blood. Blood glucose result The concentration of glucose in the blood, measured as either milligrams of glucose per deciliter of blood (mg/dL) or millimoles of glucose per liter of blood (mmol/L).

Continuous glucose monitor (CGM)

A CGM uses a small sensor inserted below your skin to measure the amount of glucose in the fluid in your skin, called interstitial fluid. Those glucose results are then sent to an App, where they are displayed as glucose levels and long-term glucose trends.

Hyperglycemia (high blood glucose)

High levels of glucose in the blood, also known as high blood glucose. When left untreated, hyperglycemia can

lead to serious complications. Talk to your healthcare professional to determine your high glucose level.

Hypoglycemia (low blood glucose)

Low levels of glucose in the blood, also known as low blood glucose. When left untreated, hypoglycemia can lead to serious complications. Talk to your healthcare professional to determine your low glucose level.

Interstitial fluid

The fluid that surrounds all the cells of the body.

Insulin

A hormone produced by the pancreas that regulates the metabolism of glucose and other nutrients. Insulin injections may be prescribed by a healthcare professional to help people with diabetes process glucose (sugar), if their pancreas is damaged and does not produce insulin.

Limitations

A safety statement outlining specific situations in which the LinX CGM should not be used because it may be harmful to you or damage the system.

mg/dL

Milligrams per deciliter; one of two standard units of measure for the concentration of blood glucose (sugar).

mmol/L

Millimoles per liter; one of two standard units of measure for the concentration of blood glucose (sugar).



MicroTech Medical (Hangzhou) Co.,Ltd.

No.108 Liuze St., Cangqian, Yuhang District,
Hangzhou, 311121 Zhejiang, P.R.China
www.microtechmd.com



Lotus NL B.V.

Koningin Julianaplein 10, 1e Verd,
2595AA, The Hague, Netherlands.

You can request this IFU in paper form from
your local dealer with no additional cost. You
will receive it within 7 calender days.

1034-IFU-003. V04

1034-PMTL-413. V03

Effective Date: 2024-09-24

Support Software Version

V1.6.0 and older