## **Comparing Continuous Glucose Monitors (CGM)** Stand-alone CGM

**Dexcom ONE+** Freestyle Libre 2 LinX CGM Sensor features NZ Supplier Mediray Intuitive Therapeutics NZMS 10 davs Sensor Life 14 days 15 days + 12 hour grace period 27.4mm (L) 24.1mm (W) 35mm (diameter) 22mm (diameter) Sensor size 4.7mm (H) 5mm (H) 4.22 mm (H) Sensor warm up time 60 minutes 60 minutes 30 minutes Frequency of glucose Every 5 minutes Every 1 minute Every 1 minute readings Recommended sensor Back of arm and abdomen Back of arm Back of arm and abdomen placement All-in-one with a built in All-in-one with a built in All-in-one with a built in Sensor design disposable transmitter disposable transmitter disposable transmitter

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Sensor features continued	Dexcom ONE+	Freestyle Libre 2	LinX CGM
Sensor insertion	One-touch device insertion	Sensor device and applicator come separately, once joined together then one-touch device insertion	One-touch device insertion
Bluetooth range	6 meters	6 meters	8-10 meters (unobstructed)
Water resistance	2.4 meters depth for up to 24 hours	1 meter depth for 30 minutes	1 meter depth for 30 minutes
Glucose results affected by medication	Yes - hydroxyurea	Yes - high dose vitamin C	No
Approved for use*	Age 2 years and over and pregnancy*	Age 2 years and over and pregnancy*	Age 18 years and over*
Glucose data display			
Phone app	Dexcom ONE+ app	LibreLink app	LinX CGM app
Phone app availability**	<u>Check</u> compatible Android and iOS phones**, requires NFC and Bluetooth	<u>Check</u> compatible Android and iOS phones**, requires NFC and Bluetooth	<u>Check</u> compatible Android and iOS phones**, requires Bluetooth only

Glucose data display continued	Dexcom ONE+	Freestyle Libre 2	LinX CGM
Receiver / reader available	Dexcom ONE+ Receiver	Libre 2 Reader	Coming soon
Glucose display	Automatically updates on Dexcom ONE+ app every 5 minutes Dexcom ONE+ receiver automatically updates every 5 minutes	Automatically updates on LibreLink app every 1 minute The Libre 2 reader device must be scanned over the sensor to receive a result - up to 8 hours of data is stored on the sensor	Automatically updates on LinX CGM app every 1 minute
Alerts / Alarms			
Low alerts	Yes - customisable between 3.3 - 8.3 mmol/L No urgent low alert	Yes - customisable between 3.3 - 5.6 mmol/L No urgent low alert	Yes - customisable between 3.0 - 5.0 mmol/L Urgent low alert fixed at 3.0 mmol/L
High alerts	Yes - customisable between 5.5 - 22.2 mmol/L + optional delayed first alert	Yes - customisable between 6.6 - 22.2 mmol/L	Yes - customisable between 7.0 - 25.0 mmol/L
Rapidly changing glucose	No	No	Yes
Total number of alerts	2	2	up to 6

Accuracy	Dexcom ONE+	Freestyle Libre 2	LinX CGM
MARD (adults)	8.7%	9.8%	8.66%
MARD (children)	8.1% arm (7-17 y/o) 9.0% abdomen (7-17 y/o)	9.7% (4–17 y/o)	N/A
Calibration required	Not required but option available	Not required option not available	Not required but option available
Data sharing			
Data following for carers and whānau	Available if using Dexcom ONE+ phone app, share data using the Dexcom Follow phone app Not available if using the Dexcom ONE+ receiver	Available if using the LibreLink phone app, share data using the LibreLinkUp phone app Not available if using the Libre 2 reader	Available Share data using the LinX CGM phone app
Cloud based diabetes management system (DMS) to share with healthcare professionals	Dexcom ONE+ phone app automatically uploads glucose data to Dexcom Clarity (DMS) Dexcom ONE+ Receiver can be manually uploaded to Dexcom Clarity (DMS) using a USB cable	Libre Link phone app automatically uploads glucose data to Libreview (DMS) Dexcom ONE+ Receiver can be manually uploaded to Dexcom Clarity (DMS) using a USB cable	LinX CGM phone app automatically uploads glucose data to PanCares (DMS) Can also export reports as a PDF from the LinX CGM phone app and send via email

Cost	Dexcom ONE+	Freestyle Libre 2	LinX CGM
Pharmac funding*** for type 1, pancreatogenic, monogenic & neonatal diabetes	Funded by Pharmac for people with Type 1 diabetes, neonatal diabetes, pancreatogenic diabetes, and atypical inherited forms of diabetes***	Funded by Pharmac for people with Type 1 diabetes, neonatal diabetes, pancreatogenic diabetes, and atypical inherited forms of diabetes***	Not funded***
Sensor cost**** (Excludes shipping)	\$78.20 per 10 day sensor****	\$106.75 per 14 day sensor****	\$95.00 per 15 day sensor****
Receiver/Reader cost****	\$287.50****	\$106.75****	Coming soon
Approximate daily cost ****	\$7.82****	\$7.63****	\$6.33****

## **Definitions:**

- CGM Continuous Glucose Monitor
- MARD Mean Absolute Relative Difference. This is a statistical measure used to assess the accuracy of CGM by comparing the CGM values to a reference value. A lower MARD indicates greater accuracy, however MARD should be interpreted with caution as MARD for devices gets tested in different ways.
- Sensor warm up time is how long the sensor takes to start giving glucose readings after it is inserted and started.
- Transmitter Device that clips into a CGM sensor and transmits the glucose data to a reader or phone
- Sensor Device that is inserted with a filament under the skin to read glucose levels in the interstitial fluid
- DMS Diabetes management system, this is a cloud based server where your healthcare team can login to review your glucose levels/pump data remotely
- The Bluetooth range refers to the maximum distance at which your sensor and receiver or reader device can reliably communicate glucose readings
- NFC Near Field Communication refers to a chip in the phone used to 'start' or 'scan' the sensor

## Notes

\* Approved for use refers to FDA approval, however these systems may be used in other populations with specialist advice and support

\*\*Phone compatibility varies, check the company website to make sure that your phone is compatible with the CGM device before purchasing/ordering. \*\*\* Pharmac funding for stand-alone CGM is for people with Type 1 Diabetes, Neonatal diabetes, Pancreatogenic diabetes and Atypical inherited forms of diabetes. Pharmac funds pump compatible CGM to be used with Automated Insulin Delivery systems, not for people using multiple daily injections of insulin. However,

these CGM can be funded for people requiring predictive low glucose alerts if their clinical team determines this is necessary.

\*\*\*\* Prices from company websites as of February 2025