

Data logger information sheet

What is a data logger?

A data logger is a **small electronic device** that records temperatures at regular set intervals.

Who should use a data logger?




It is **mandatory** for all clinics who access government funded NIP vaccines to have a data logger. The National Vaccine Storage Guidelines '[Strive for 5](#)' states that:

- each vaccine refrigerator is to have a permanent data logger
- temperatures must be continuously measured at 5-minute intervals
- data is required to be downloaded at least once a week

Is twice daily temperature recording still required?

Yes, manual recording of twice daily min/max temperatures is required **in addition** to data logging.

Examples of data loggers

Data Logger	Type & cost	Description
AQ Box 	Type: Wireless inbuilt Cost: \$858 + \$210 annual subscription	The AQ Box is a device that is integrated into new Medisafe Plus vaccine fridges. It can also be installed to an older existing fridge by a technician. Data is sent to the Cloud where information can be accessed anywhere. If temperature is fluctuating outside the set temperature parameters, a notification will be sent via an email or text.
Clever Logger Kit 	Type: Wireless portable Cost: \$286	The Clever Logger device stays inside the fridge and transmits data to the Gateway, which sits outside the fridge. Data can be accessed anywhere, and alert notifications will be sent when temperatures are out of range via email or the free Clever Logger App. Reports are generated automatically and are sent directly to your email.
LogTag Premium 	Type: USB portable Cost: \$183	The LogTag device is placed inside fridge. To retrieve data, plug the LogTag device directly into a computer USB port. Install the free LogTag Analyser software onto a computer to download and view data. The Alert LED will flash red when temperatures are outside the set parameters.

Disclaimer: The list is not exhaustive, please research before purchasing. CESPHN does not endorse any brand.

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Benefits of a data logger

- provides accurate data of the vaccine fridge temperatures
- confirms if vaccine cold chain has been maintained
- provides information on duration of a cold chain breaches
- can identify 'cold spots' and temperature fluctuations within refrigerator
- allows potential to reduce vaccine wastage via assessment of thermostability data
- helps to assess accuracy of refrigerator's inbuilt thermometer
- alarms when a temperature outside the 2°C to 8°C range (some models)

Further Information

Contact the Immunisation team at Central and Eastern Sydney PHN if you require further information.

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