



Kaye Log -80 Vaccine Temperature Logger

The Kaye Log Vaccine -80 Temperature Logger with external probe, allows the precise recording and monitoring of products that are using Dry Ice pellets for Cold Chain shipment and storage. Typical shipments of vaccines and plasma require the contents of the shipping containers to be kept at -80°C (-112°F), and any breaking of the container seal, will quickly allow the internal temperatures to rise to a critical level. Using the Kaye Log Vaccine Logger with external probe, allows the user to monitor the actual product, and not just the temperature of the Dry Ice environment. Threshold LEDs allow the recipient to quickly see if the threshold limits have been breached, and with a quick swipe of an NFC device, all data is loaded to a local smart phone application and to the KayeTrack cloud, with corresponding email alerts, emailed PDF reports and GPS* location information. Unlike USB logging devices, all data and information can be collected without opening or disturbing the shipment, thus keeping the environment at the required temperature and increasing the speed of shipment processing.



The slim blister pack design allows easy integration of the Kaye Log Vaccine -80 Temperature Logger into any existing shipment, either with little or no need for package re-design. A full shipment package with logger integration can be delivered from Kaye Instruments – this one stop shop will allow fast deployment and give peace of mind that your temperature sensitive products will continue to be safe throughout the total Cold Chain process.

- Simple, cost efficient loggers designed specifically to measure Dry Ice environments for Vaccine shipment
- Measures and Records Temperature Readings Ranging from -100°C to 100°C (-148°F to 212°F) using an external PT1000 Sensor
- Credit card sized logger that can be conveniently stored within the insulation
- Data can be read by use of mobile phone with NFC (Android/iOS), or USB NFC reader
- External sensor using flat cable for simple installation and sealing of compartment
- Powered by internal CR2032 slimline battery
- Single use logger that can be read by NFC compliant devices
- Stores Up To 4300 Samples/Readings
- Alarms with Red/Green LED indicators for Temperature Excursions
- Includes a NIST Traceable Calibration Certificate, Compliant to ISO/IEC 17025:2017



*GPS position taken from the mobile device used for data access.

Data can be read in 3 ways



- NFC using Apple or Android phone and App
- NFC USB Reader
- NFC dedicated Android mobile reader

NFC USB Reader

The NFC USB Reader allows the user to program and read data from the NFC loggers on a computer running Windows.

Kaye NFC allows you to create a profile with your recording settings (min. and max. temperatures, frequency, etc.) and apply this profile to one or more NFC loggers. Simply follow the software instructions - position your loggers on the reader to program them quickly.

The NFC USB Reader, combined with Kaye NFC Software saves you time by allowing you to scan an entire pack of loggers at one time and download data from them.



NFC Android Reader

The first professional Android-based NFC device designed to meet B2B expectations.

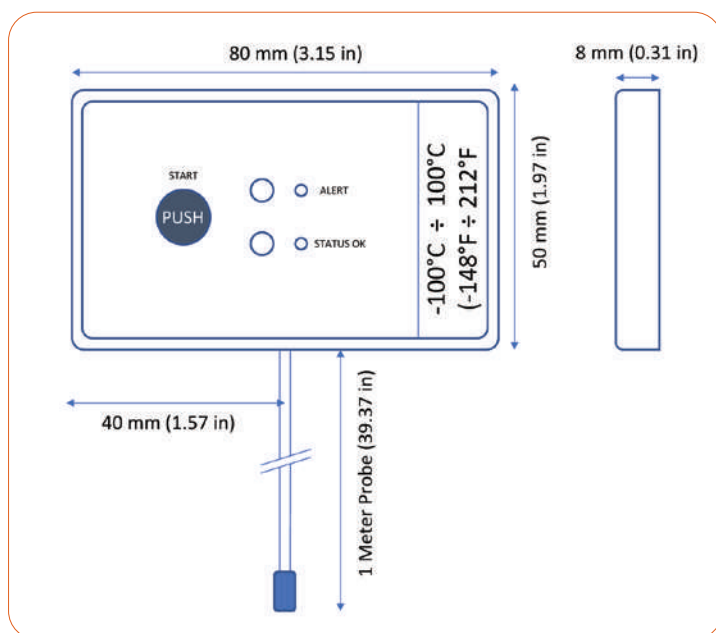


Features and Benefits

- **Android Based** – as flexible as a smartphone
- **Highly Mobile** – lightweight, pocket-sized and connected
- **Managed over the air** – centralized and secure OTA device management platform
- **Dedicated device** – can be dedicated to a single application
- **Secure by design** – embedded SE/SAM for the highest security

Kaye Log -80 Vaccine Temperature Logger Specifications

Temperature Probe	Probe Type: External PT1000 Temperature Sensor Measuring Range: -100°C to 100°C (-148°F to 212°F) Accuracy: ±0.8°C (-100°C to -35°C); ±0.5°C (-35°C to 35°C) ±0.8°C (35°C to 100°C) Resolution: 0.1°C (0.1°F) Part number X3108-111-1 / 28 day use @10 min samples
External Cable type	2 wire, flat ribbon connection – 1 Meter (3 Feet)
Calibration	1-Year Traceable Calibration Validation batch based - Certificate accessed through web/mobile download
Logger Operating Range	Temperature: -40°C to +60°C (-40°F to 140°F)
NFC Operating Range	Temperature: -20°C to 60°C (-4°F to 140°F)
Storage Range	Temperature: -40°C to +60°C (-40°F to 140°F)
Data Storage Capacity	4,300 Measurement Readings/Samples
Sampling Rate	1 Minute to 1 Hour (User-Selectable) – Single Use
Logger Interface	Programmable/Readable through the use of NFC device, either Mobile App (Auto load from Google Play or App Store), or Desktop program
Alarm	Visual LEDs (Good/Bad Temperature Thresholds)
Battery	Non-Replaceable CR2032 Lithium Battery
Battery Life	Up to 2 years
Standards Compliance	IP67, EN12830, GxP, IOS 9001:2008, FDA 21 CFR Part 11 and HACCP International Compliant
Software Requirements	Internet browser for Cloud Database access, Android/iOS for mobile App
Necessary Equipment	NFC reader –Smartphone with NFC reader, or tablet with NFC
Weight	45g (1.6 oz)
Dimensions	80mm x 50mm x 8mm (3.15" x 1.97" x 0.31")



Warranty and disclaimer:

The information mentioned on documents are based on our current tests, knowledge and experience. Because of the effect of possible influences in an application of the product, they do not exempt the user from their own tests, checks and trials. A guarantee of certain properties or a guarantee for the proper suitability of the product for a specific, especially permanent application cannot be derived from our data. Liability is therefore excluded to that extent permitted by law. Any proprietary rights of third parties as well as existing laws and regulations must be observed by the recipient of the product on his own responsibility.

www.kayeinstruments.com