

Indiana State Department of Health Vaccines for Children Program

Data Logger Guide

The Indiana Vaccines for Children Program has specific requirements for temperature monitoring devices. Upon enrollment in the VFC Program, ISDH will supply the VFC provider with data loggers, or providers can purchase or use their own. **Beginning January 1, 2018, VFC enrolled providers will be required to purchase a back-up data logger with a valid and current certificate of calibration.** ISDH must certify that newly enrolled providers are monitoring storage unit temperatures correctly and following CDC and Indiana VFC guidelines prior to being granted vaccine ordering privileges.

The CDC and Indiana VFC recommend use of a digital data logger with a detachable probe in a buffered material (e.g., glycol) with continuous monitoring capabilities with the following features:

- Alarm for out-of-range temperatures
- Current, minimum and maximum temperatures
- Low battery indicator
- Accuracy of +/- 1 F (0.5° C)
- Memory stores at least 4,000 readings; device will not write over old data and stops recording when memory is full
- User programmable logging interval (or reading rate)
- Calibration testing of data loggers must be performed at least every two to three years (dependent on the type of data logger) from the last calibration testing date

Unacceptable temperature monitoring devices

The following are prohibited for use in the VFC program, and temperature recordings generated with their use will **not** constitute a valid reading:

- Temperature monitoring devices without a current and valid Certificate of Calibration Testing
- Alcohol or mercury thermometers
- Food temperature monitoring devices
- Chart recorders

- Bi-metal stem temperature monitoring devices
- Infrared temperature monitoring devices
- Devices sold in hardware and appliance stores are not engineered to monitor temperatures of vaccines, and may not be used

Providers can access the websites for their respective data loggers for more information on specifications and quick reference guides.*

Fridge-tag®

<http://www.berlinger.com/>

DeltaTrak

<http://www.deltatrak.com/>

LogTag

<http://www.vfcdataloggers.com/>

*This list is for reference purposes only, and does not indicate endorsement by the Indiana State Department of Health

Calibration

Per CDC guidelines, the calibration certificate must include:

- Model/device name or number
- Serial number
- Date of calibration (report or issue date)
- Measurement results indicate unit passed testing
- The documented uncertainty is listed and within suitable limits (recommended uncertainty= +/- 1F or 0.5 C)

All calibrated data loggers must be certified in accordance with the National Institute of Standards and Technology (NIST), or a laboratory recognized by NIST. CDC recommends that calibration testing be performed by ILAC MRA accredited laboratories. ILAC accredited laboratories are:

- The American Association for Laboratory Accreditation (A2LA)
- Laboratory Accreditation Bureau (L-A-B)
- ANSI-ASQ National Accreditation Board (ACLASS)
- International Accreditation Services (IAS)
- Perry Johnson Laboratory Accreditation, Inc. (PJLA)

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- National Voluntary Laboratory Accreditation Program (NVLAP)