



Data Loggers: Continuous Monitoring Thermometer Devices

Effective January 1, 2018, all State-Supplied Vaccine (SSV) Program providers are required to have a working calibrated thermometer device, including a back-up device with a current, valid certificate of calibration, issued by an ILAC MRA-accredited lab or, a certificate of calibration statement indicating it meets ISO 17025 standards and a backup unit as well. The Rhode Island Department of Health (RIDOH) Office of Immunization will provide devices and back-up devices to practices at no cost, but if practices accept them from RIDOH, they will be responsible for the cost of recalibration and repair/replacement if the unit is damaged. Providers may choose to purchase their own calibrated thermometer device and back-up device that meet all the following criteria* from the Centers for Disease Control and Prevention (CDC):

- Continuous monitoring and recording: Logging intervals (or reading rate) that can be programmed by the user to measure and record temperatures at least every 30 minutes;
- Has a buffered probe of liquid (glycol or glycerin) or loose media (glass beads or sand) or solid (Teflon or aluminum). These buffered materials measure the temperature of the vaccine in the vial rather than the air temperature in the vaccine unit;
- A digital display that can be read easily from the outside of the unit;
- Be within (+/-1 °F) (+/-0.5 °C) accuracy;
- Displays current minimum and maximum temperature reading;
- Reset button for min/max display;
- Memory storage for at least 4,000 readings;
- Alarm for out-of-range temperatures;
- User-programmable logging intervals (or reading rate);
- Low battery indicator; and
- Ability to generate temperature reports.

Examples of data loggers that meet CDC criteria*:

LogTag VFC Vaccine Storage and Monitoring Kit 2: VAC TRED30-KIT-2

Estimated Costs: \$155 per device, plus \$49 for docking station, required to generate reports. For a 2-year certificate of calibration, recalibration rates are on LogTag at microdaq.com/logtag-vaccination-storage-kit.php

Lascar Electronics: High Accuracy EFi Vaccine Monitoring Kits with Alarm Warning Light and Sounder

Estimated Cost: \$343 per device ([Lascar Electronics EL-WIFI-VACX Vaccine Data Logger](#)). 1-year and 2-year certificates of calibration are available. EasyLog Cloud set up. Recalibration rates are available at microdaq.com/calibration.php

Please note: The RIDOH Office of Immunization does not recommend any specific vendor for transporting and monitoring products. The products listed above are examples and do not imply endorsement by the program.*