

# Vaccine Temperature Monitoring System

Aiding in the Compliance of State Regulations & CDC Guidelines for the Vaccines for Children (VFC) Programs

DATA LOGGING SOLUTIONS



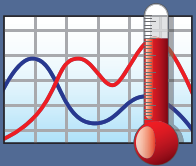
# Continuous Vaccine Temperature Monitoring

While refrigerators and freezers can be fitted with any number of thermometers or digital data loggers, in order to aid in compliance with state regulations and CDC guidelines for the Vaccines for Children (VFC) program, the best possible continuous monitoring solution remains the MadgeTech Vaccine Temperature Monitoring System (VTMS).

Unlike other data loggers with finite lifespans, the MadgeTech VTMS is built to last and measures accurate data for years, requiring only regular recalibration and a battery change approximately every five years. Its easy-to-read LCD displays the current temperature of stored vaccines as well as the minimum, maximum, and average readings at all times. In addition, the VTMS also transmits continuous, real-time data

wirelessly to a central PC, enabling continuous remote monitoring of vaccine temperatures.

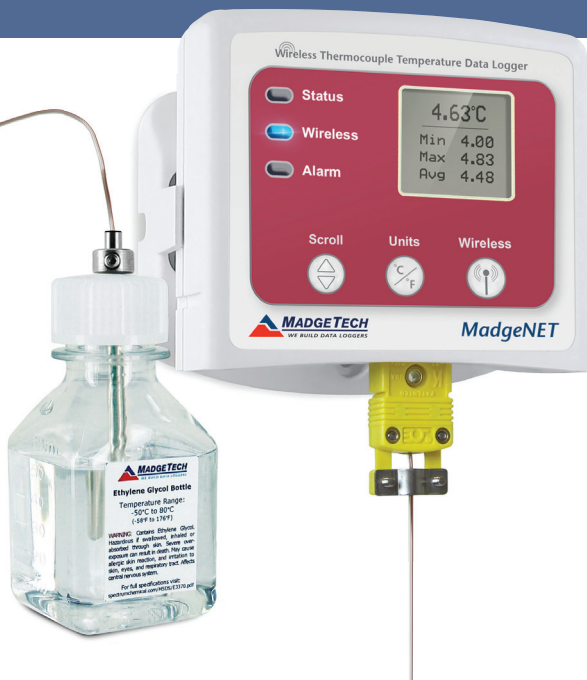
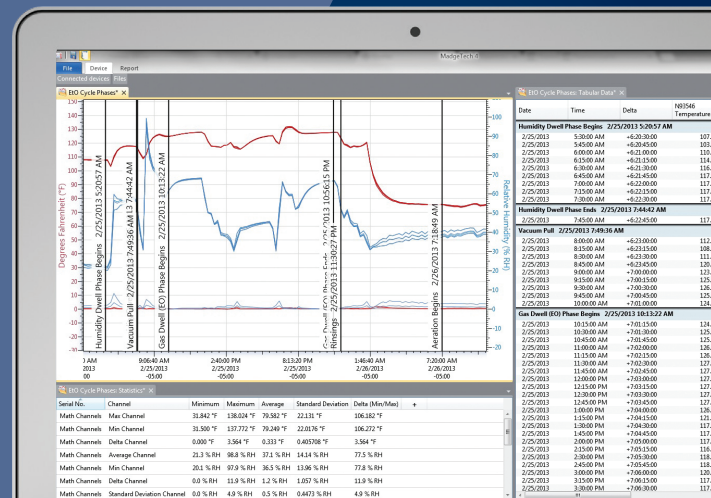
While the VTMS is a powerful, state-of-the-art digital data logger, it is also highly user-friendly. Setup is as easy as attaching the RTD probe and glycol bottle to the logger before turning it on. To allow for easy reading, the VTMS can be placed on a tabletop using its stand or wall mounted according to user preference. Users can set custom alarms that are audible and visible both on the face of the logger itself and remotely on an administrative PC. This combination of features makes the VTMS the most complete and straightforward vaccine temperature logging system on the market.



## Data Logging Software

MadgeTech 4 Software empowers users to view and analyze both logged and real-time data on dynamic, free Windows-based software. MadgeTech 4 also allows users to monitor any number of Vaccine Temperature Monitoring Systems in their facility on a single central PC.

- » Creates graphs and reports
- » Provides detailed data for temperature logs
- » Real-time email alerts in case of excursion
- » Calculates time out of range



## MadgeTech Benefits & Features

- » **Continuous Wireless Real-Time Monitoring:** Monitor multiple loggers simultaneously
- » **Large Easy to Read Display:** Get current, max, min and average readings on the spot
- » **Audible and Visual Alerts:** Instantly notify staff when thresholds are in danger
- » **Long Term Performance:** Made to last for years with very little maintenance
- » **Simple Set-Up and Operation:** Any user can set-up and operate in minutes



# Meets or Exceeds CDC & VFC Requirements

Thermometers and data loggers associated with vaccine storage are held to high standards to qualify for participation in government inoculation programs, including Vaccines for Children. The **MadgeTech Vaccine Temperature Monitoring System** is one hundred percent compliant to all CDC regulations and VFC requirements. In many key areas, the MadgeTech solution actually exceeds those standards.

VFC Requirements		MadgeTech VTMS
Accuracy of $\pm 0.5^{\circ}\text{C}$	✓+	The MadgeTech VTMS provides high accuracy temperature monitoring and features a device accuracy of $\pm 0.5^{\circ}\text{C}$ .
Out-of-Range Alarms	✓+	The MadgeTech VTMS offers both LED visual alarm indication and an audible buzzer on the device itself. In addition, the software can send alarms to an unlimited number of users in the event of a temperature excursion.
Low Battery Indicator	✓+	The on-board LCD display will clearly indicate the battery level. In addition, this device is capable of running off of external power, which allows the battery to simply function as a backup.
4,000 Reading Memory Storage	✓+	The VTMS System can store over 16,000 readings.
Current, Minimum & Maximum Temperature Display	✓	Display of current, minimum and maximum temperatures, which indicate the coldest and warmest temperatures recorded since the device was reset. Simple and easy to read LCD display of information without requiring button presses or determination of proper data displayed.
User-Programmable Logger Interval	✓	MadgeTech data loggers can be configured by the user to take readings at user-specified intervals to create a complete overview and detailed record of the vaccine storage environment. Stand alone mode memory can handle more than 16,000 readings while real-time mode has no limitations to memory and can offer much greater visibility to temperature trends and analysis.
Certificate of Calibration	✓	The VTMS includes a certificate of calibration.
Detachable, Buffered Temperature Probe	✓	The VTMS includes a 30 ml glycol bottle probe assembly.
Reporting	✓	The <b>FREE</b> MadgeTech 4 Data Logger Software is designed to streamline the process of downloading data and reviewing it in a user-friendly, time efficient manner. The software offers many customizable features and options, including custom reports, graphs and tabular data, workflows and alarm definitions based upon inputs with selectable outputs as well as the ability to change engineering units (dependent upon specific data logger models), conforming to the needs of the user. Whether the loggers are used in stand alone or real-time, the software features and capabilities far outperform continuous DDL solutions from other vendors. MadgeTech also offers free and unlimited software support.





# Q & A

## What is the MadgeTech advantage?

The MadgeTech Vaccine Temperature Monitoring System is the most complete, user-friendly solution on the market. Our loggers offer highly precise measurement, continuous, real-time data analysis and unmatched ease of use. The VTMS provides both local monitoring directly on the unit's LCD display and remote monitoring from a PC, each with customizable alarms. Additionally, MadgeTech 4 Software provides detailed, easy to understand graphs and data tables to track long term data and generate comprehensive reports for regulators. The combined power of MadgeTech data loggers and MadgeTech 4 Software provides users with the best possible system for monitoring vaccine temperatures.

## What makes MadgeTech unique?

MadgeTech data loggers are entirely designed and manufactured at our Warner, New Hampshire headquarters. As a proud American manufacturer, we provide both high-quality, hand-made loggers, assembled just yards from the engineers who designed them, and a personalized sales and support experience that is unmatched in the industry.

## How is this better than our current system?

Most vaccine temperature data loggers on the market have a finite lifespan and need to be replaced every two years. The MadgeTech VTMS is a permanent solution for your needs, requiring only fresh batteries and occasional calibration. The VTMS' display presents data more clearly than any competing system, so users will never be left wondering what the logger is telling them.

## Will the MadgeTech solution cost more?

No! The price of MadgeTech loggers may initially seem greater than our competitors', but when you consider the cost of replacing other loggers every two to three years, the permanence of the MadgeTech VTMS presents a lower cost of ownership over the long term.

## Is the software easy to use?

Yes! MadgeTech 4 can be downloaded, installed, and synced with a VTMS in less than five minutes. The main toolbar is laid out to make communicating with loggers as straightforward as possible, and everything on the screen is clearly labeled. If users have any difficulty getting started, MadgeTech offers free, unlimited phone support as well as online video tutorials.

## How does the software aid in reporting?

MadgeTech 4 automatically generates detailed graphs and data tables that can be scaled or labeled according to user preference. The software automatically calculates statistics, and data can be exported to Microsoft Excel with a single click, allowing users to easily combine or compare data sets.



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