

DATA LOGGING SOLUTIONS

VACCINE TEMPERATURE MONITORING



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



The MadgeTech Advantage



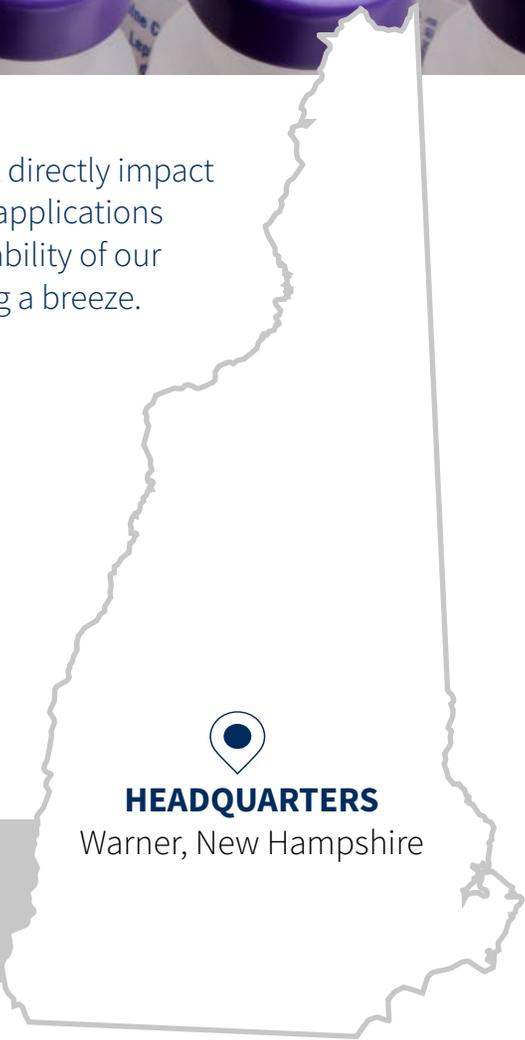
Ensure safety, quality and efficiency by measuring and recording crucial data for inconsistencies that directly impact the success of a business. Our customizable data logging solutions provide real-time monitoring for applications where the slightest change in environment could be destructive. Coupled with the accuracy and reliability of our products, we also offer free software and cloud services, making compliance and validation reporting a breeze.

The MadgeTech **Vaccine Temperature Monitoring System (VTMS)** 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.

Benefits:

-  Calibration
-  ISO/IEC 17025 Accreditation
-  IQ/OQ/PQ On-Site Services
-  Free Technical Support
-  Free Software
-  Cloud Services
-  21 CFR Part 11 Compliance

MadgeTech data loggers are designed, manufactured and serviced in the USA and distributed worldwide.



HEADQUARTERS
Warner, New Hampshire

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.

VTMS 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 and 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.

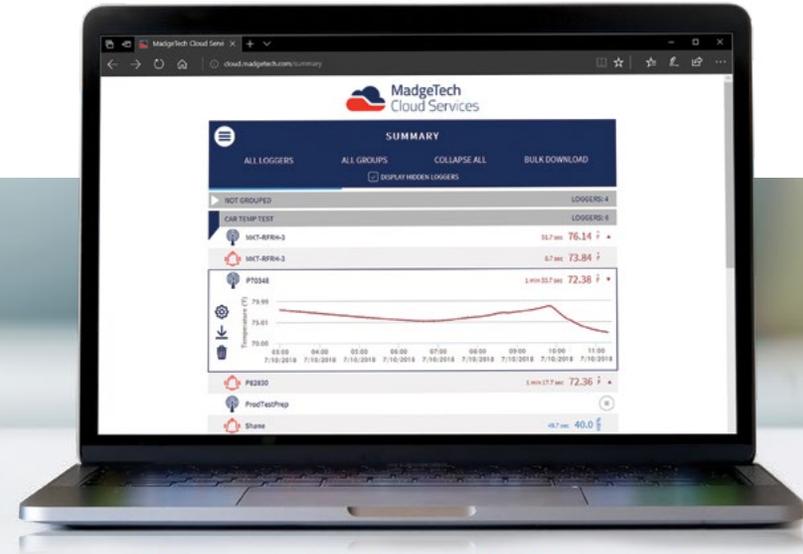
 Exceeds VFC Requirements	MadgeTech VTMS
Accuracy of ± 0.5 °C	Provides high accuracy temperature monitoring and features a device accuracy of ± 0.05 °C.
Out-of-Range Alarms	Offers both LED visual alarm indication and an audible buzzer on the device itself. In addition, the software can send alarms to 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	Stores over 16,000 readings in stand alone memory mode. Real-time mode has no limitations to memory and can offer much greater visibility to temperature trends and analysis.

 Meets VFC Requirements	MadgeTech VTMS
Current, Minimum & Maximum Temperature Display	Displays 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	Configured by the user to take readings at user-specified intervals to create a complete overview and detailed record of the vaccine storage environment.
Certificate of Calibration	Certificate of calibration included.
Detachable, Buffered Temperature Probe	30 ml glycol bottle probe assembly included.
Reporting	The FREE MadgeTech 4 Data Logger Software is designed to streamline the process of downloading data and reviewing it in a user-friendly, time efficient manner. See page 7 for more information. MadgeTech also offers free and unlimited software support.



MadgeTech Cloud Services

Access Data Instantly and Securely from Anywhere in the World



The **MadgeTech Cloud** is compatible with all MadgeTech wireless data loggers, providing users with instant access to real-time data from any location. With the MadgeTech Cloud, data loggers can securely transmit data to be viewed on any Internet enabled device such as a computer, tablet or smartphone.

Scalable Solution

The MadgeTech Cloud is designed to support organizations of any size. From a single data logger to a network consisting of hundreds of loggers, the MadgeTech Cloud provides facilities with on-demand data supervision, attainable results, and flexibility like never before. The MadgeTech Cloud gives users the power to have control of all their critical data right in the palm of their hand.

Cloud Capabilities

All wireless MadgeTech data loggers can transmit data to the MadgeTech Cloud to be saved, viewed and controlled. The data is available for viewing from any Internet enabled device anywhere in the world. Equipped with many features, the MadgeTech Cloud is flexible enough to adapt to any data logging needs.

New Logger Groups

Assembling data loggers is easier than ever thanks to the MadgeTech Cloud's Logger Groups. Users have the ability to organize data loggers into groups and subgroups, making all data easily accessible from one central location.

Email & Text Message Alerts

The MadgeTech Cloud allows users to configure alarms to alert for no readings, channel thresholds or battery level. When an alarm is triggered, text message or email notifications are instantly sent, giving users the ability to view the data and assess the situation immediately.



Quick and
Easy Setup



View Data
From Anywhere



Access Data
Instantly



Email and Text
Notifications

MadgeTech 4 Software

The simple, easy-to-use, Windows-based software enables the user to effortlessly collect, display and analyze data. A variety of powerful tools can be used to examine, export, and print professional quality reports with just a click of the mouse. This software can be downloaded for free from the MadgeTech website.



MadgeTech 4 Software Customizable Features and Options

MadgeTech 4 Software can communicate with multiple loggers through multiple interface cables. Capable of simultaneous start, stop and download of over 100 devices, this software serves as your virtual command center for large scale facilities and small. Display your data in graphs, with tabbed views and multi-monitor support. Utilize the infinite graphing flexibility by combining channels and datasets as desired. All graphing makes use of accelerated graphics hardware for real-time updating and high performance visuals.

MadgeTech 4 Software is designed with a built-in database for automatic storage of downloaded data. The look and feel is organized much like standard email programs to aid in user friendliness and ease of use. MadgeTech 4 Software also offers extensive alarming options across multiple devices, wireless and non-wireless. Alarm output options include email, on-screen, text message and run-a-program alerts.

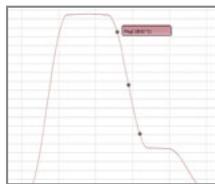
MadgeTech 4 Software has a powerful and comprehensive statistics system that allows the user to customize and view statistics as desired. Another feature is customizable engineering units. This enables users to support and program devices with many different unit types as well as the ability to display them as an alternate unit if desired.

Software Features

- Multiple Graph Overlay
- Statistics
- Digital Calibration
- Zoom In / Zoom Out
- Cooling Flags
- Lethality Equations (F0, PU)
- Mean Kinetic Temperature
- Full Time Zone Support
- Data Annotation
- User Friendly File Management
- Min. / Max. / Average Lines
- Timeslice
- Data Table View
- Automatic Report Generation
- Summary View
- Workflows / Automation



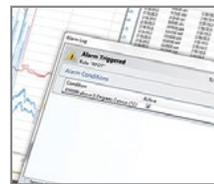
Cooling Flags



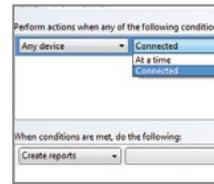
Graph View

Time	Time Zone	Delta
1:13:37 PM	-04:00	-00:00:00
1:14:37 PM	-04:00	+00:01:00
1:15:37 PM	-04:00	+00:02:00
1:16:37 PM	-04:00	+00:03:00
1:17:37 PM	-04:00	+00:04:00
1:18:37 PM	-04:00	+00:05:00
1:19:37 PM	-04:00	+00:06:00
1:20:37 PM	-04:00	+00:07:00
1:21:37 PM	-04:00	+00:08:00
1:22:37 PM	-04:00	+00:09:00
1:23:37 PM	-04:00	+00:10:00
1:24:37 PM	-04:00	+00:11:00
1:25:37 PM	-04:00	+00:12:00

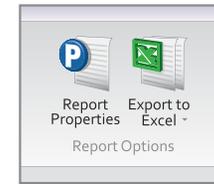
Tabular Data View



Alarm Notifications



Automation



Export to Excel