

VFC2000-MT

VFC 温度数据记录仪



产品

用户指南

要查看完整的 MadgeTech 产品线，请访问我们的
网站：madgetech.com。3 设备维护

目录

2 产品概述

2 设备操作

3 需要帮助吗？

4 规格

4 订购信息



产品使用指南

产品概览 选择按钮

VFC2000-MT 设计有三个选择按钮：

VFC2000-MT 是一种简单的疫苗解决方案

温度监控合规性。旨在满足

滚动：允许用户滚动浏览

VFC2000-MT 提供所有 CDC 和 VFC 要求

当前读数、平均统计数据、每日

精确、连续的温度监测和验证

最低和最高温度

适用于低至 -100 ° C (-148 ° F) 的温度。设有

以及设备状态信息显示

方便的液晶屏，VFC2000-MT显示当前

液晶显示屏。

读数、最小和最大统计数据以及

电池电量指示器。用户可编程警报触发 允许用户更改显示

单位：

° C 声音和视觉警报。可选的乙二醇瓶监视器

测量单位为摄氏度或

° F

适用于低至 -50 ° C (-58 ° F) 的温度和华氏交流电源。

如果断电，电源可以让电池作为备用电源。

启动/停止：要激活手动启动，

VFC 要求

通过 MadgeTech 4 武装设备

- 可拆卸、缓冲温度探头软件。按住按钮 3 秒钟。
- 超出范围的声音和视觉警报 将发出两声蜂鸣声来确认设备已启动。将显示正在读取的内容
- 带外部电源和电池的低电量指示器

屏幕上和软件中的状态将

备份

从“等待”变为“开始”，再变为“运行”。

- 当前、最低和最高温度显示

要在跑步时暂停记录，请按住

- 按钮持续3 秒的精度为±0.5° C (±1.0° F)。
- 可编程记录间隔（每秒 1 个读数

LED 指示灯每天读取 1 次）

- 每日检查提醒警告

绿色 LED 每 5 秒闪烁一次 状态：

- 适用于疫苗运输，以指示设备正在记录。
- 还监控室温

检查：蓝色 LED 每 30 秒闪烁一次

表明每日统计检查已经过去

24小时。按住滚动按钮 3 秒即可

设备操作

重置提醒。

1. 将 MadgeTech 4 软件安装到 Windows PC 上。

警报：红色 LED 每 1 秒闪烁一次

2. 使用以下命令将数据记录器连接到 Windows PC：

表示已设置报警条件。

提供 USB 电缆。

3. 启动 MadgeTech 4 软件。VFC2000-MT

将出现在“已连接设备”窗口中

表明设备已被识别。

4. 选择开始方式、读取间隔等

适合所需数据记录的参数

应用。配置完成后，通过以下方式部署数据记录器

单击“开始”图标。

5. 要下载数据，请在列表中选择设备，单击

PRODUCT USER GUIDE

Device Maintenance

Battery Replacement

Materials: U9VL-J Battery or any 9 V Battery (lithium recommended)

1. On the bottom of the data logger, open the battery compartment by pulling in on the cover tab.
2. Remove the battery by pulling it from the compartment.
3. Install the new battery, taking note of the polarity.
4. Push the cover closed until it clicks.

Recalibration

Recalibration is recommended annually or bi-annually for any data logger; a reminder is automatically displayed in the software when the device is due. To send devices back for calibration, visit **[madgetech.com](https://www.madgetech.com)**.



Product Support & Troubleshooting:

- Refer to the Troubleshooting section of this document.
- Visit our Knowledge Base online at **[madgetech.com/resources](https://www.madgetech.com/resources)**.

EO: sales@eofirm.com | www.eofirm.com | 0755-84200058



MadgeTech 4 Software Support:

- Refer to the built-in help section of the MadgeTech 4 Software.
- Download the MadgeTech 4 Software Manual at **[madgetech.com](https://www.madgetech.com)**.

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PRODUCT USER GUIDE

Specifications

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TEMPERATURE	
Temperature Range	-20 °C to +60 °C (-4 °F to +140 °F)
Resolution	0.01 °C (0.018 °F)
Calibrated Accuracy	±0.50 °C/± 0.18 °F (0 °C to +55 °C/32 °F to 131 °F)
Response Time	10 minutes free air

REMOTE CHANNEL	
Thermocouple Connection	Female subminiature (SMP) (MP model) Pluggable screw terminal (TB model)
Cold Junction Compensation	Automatic, based on internal channel
Max. Thermocouple Resistance	100 Ω
Thermocouple K	Included Probe Range: -100 °C to +80 °C (-148 °F to +176 °F) Glycol Bottle Range: -50 °C to +80 °C (-58 °F to +176 °F) Resolution: 0.1 °C Accuracy: ±0.5 °C
Response Time	τ = 2 minutes to 63% of change

GENERAL	
Reading Rate	1 reading every second up to 1 reading every 24 hours
Memory	16,128 readings
LED Functionality	3 status LEDs
Wrap Around	Yes
Start Modes	Immediate and delay start
Calibration	Digital calibration through software

Calibration Date	Automatically recorded within device
Battery Type	9 V lithium battery included; user replaceable with any 9 V battery (lithium recommended)
Battery Life	3 years typical at 1 minute reading rate
Data Format	For Display: °C or °F For Software: Date and time stamped °C, K, °F or °R
Time Accuracy	± 1 minute/month
Computer Interface	USB to mini USB, 250,000 baud for standalone operation
Operating System Compatibility	Windows XP SP3 or later
Software Compatibility	Standard Software version 4.2.21.0 or later
Operating Environment	-20 °C to +60 °C (-4 °F to +140 °F), 0 %RH to 95 %RH non-condensing
Dimensions	3.0 in x 3.5 in x 0.95 in (76.2 mm x 88.9 mm x 24.1 mm) Data logger only
Glycol Bottle	30 mL
Probe Length	72 in
Material	ABS Plastic
Weight	4.5 oz (129 g)
Approvals	CE
Alarm	User configurable high and low audible and on-screen alarms. Alarm Delay: A cumulative alarm delay may be set in which the device will activate the alarm (via LED) only when the device has recorded a user specified time duration of data.
Audible Alarm Functionality	1 Beep per second for reading alarm above/below threshold

BATTERY WARNING: BATTERY MAY LEAK, FLAME OR EXPLODE IF DISASSEMBLED, SHORTED, CHARGED, CONNECTED TOGETHER, MIXED WITH USED OR OTHER BATTERIES, EXPOSED TO FIRE OR HIGH TEMPERATURE. DISCARD USED BATTERY PROMPTLY. KEEP OUT OF REACH OF CHILDREN.

Ordering Information

VFC2000-MT	PN 902311-00	VFC Temperature data logger with thermocouple probe and USB to mini USB cable
VFC2000-MT-GB	PN 902238-00	VFC Temperature data logger with thermocouple probe, glycol bottle and USB to mini USB cable
Power Adapter	PN 901839-00	Replacement USB universal power adapter
U9VL-J	PN 901804-00	Replacement battery for VFC2000-MT

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