

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [Frigga](#) /
- › [Frigga M2D Reusable USB Temperature Data Logger User Manual](#)

## Frigga M2D

# Frigga M2D Reusable USB Temperature Data Logger User Manual

Model: M2D

## 1. INTRODUCTION

---

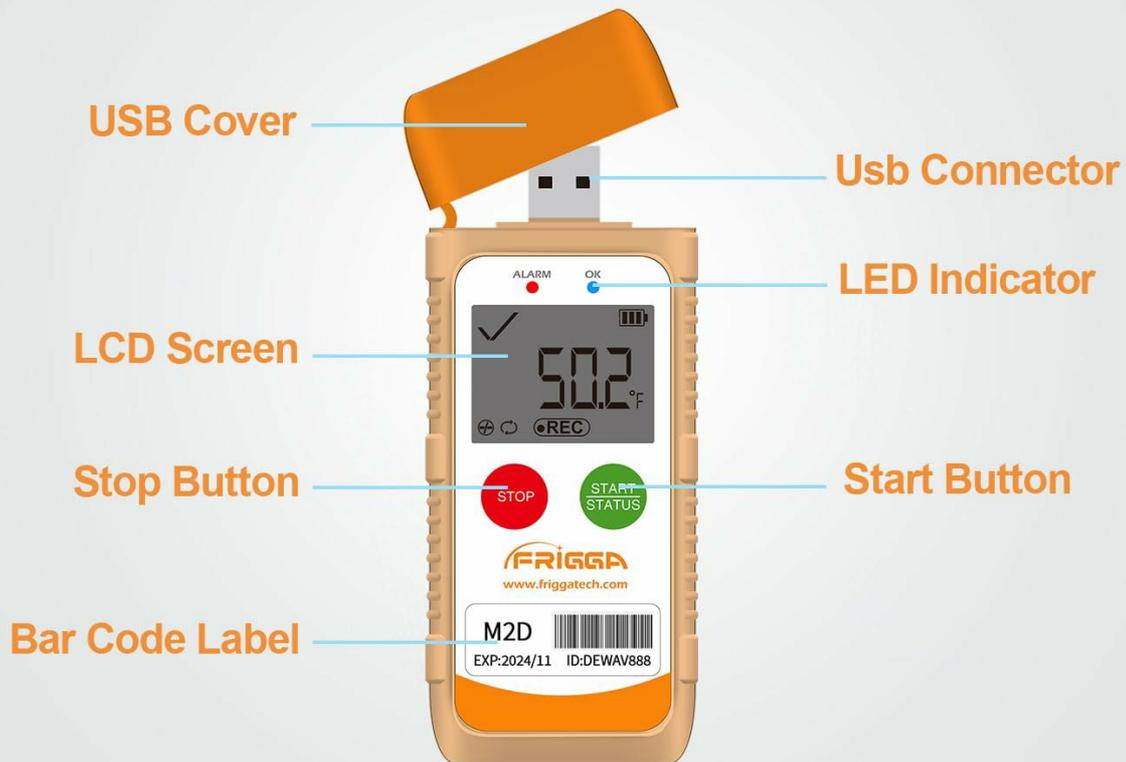
The Frigga M2D is a multi-use USB temperature data logger designed for reliable and accurate temperature monitoring across various applications. This device is ideal for cold chain logistics, food storage, pharmaceutical monitoring, and laboratory use, ensuring product integrity and regulatory compliance. It features a large data memory, direct PDF/CSV report generation, and an intuitive LCD display.

## 2. PRODUCT OVERVIEW

---

Familiarize yourself with the components of your Frigga M2D data logger.

# Multi-Use Temperature Data Logger



**Image:** Frigga M2D Data Logger with labeled components. This image highlights the USB Cover, USB Connector, LED Indicator, LCD Screen, Stop Button, Start Button, and Bar Code Label on the device.

- **USB Cover:** Protects the USB connector from dust and moisture.
- **USB Connector:** Used for connecting to a computer for data export and configuration.
- **LED Indicator:** Provides visual feedback on device status and alarms.
- **LCD Screen:** Displays real-time temperature readings, alarm status, and recording information.
- **Stop Button:** Initiates the stopping of a recording session.
- **Start Button:** Initiates the starting of a recording session.
- **Bar Code Label:** Contains product identification information.

## 3. KEY FEATURES

- **Multi-Use Temperature Data Logger:** Advanced internal sensor provides a measuring range of -30°C to +70°C (-22°F to +158°F). Accuracy range is  $\pm 0.5^{\circ}\text{C}$  (-20°C to +40°C) and  $\pm 1^{\circ}\text{C}$  for other ranges. It features a large data memory of up to 14400 readings.

# Product parameter



- **Measurement Range**

-30°C ~ 70°C ( -22°F ~ 158°F)

- **Accuracy Range**

-0.5°C/31.1°F & 0.5°C/32.9°F  
(-20°C/-4°F ~ +40°C/104°F)

1°C/33.8°F & -1°C/30.2°F for  
other range

- **Memory Capacity**

Max 14400 readings

**Image:** Frigga M2D Product Parameters. This image details the measurement range, accuracy range, and memory capacity of the device, along with its physical dimensions (4.41 inches height, 1.85 inches width).

- **Multiple Data Export Options:** Easily generate PDF and CSV reports directly by plugging the device into any computer's USB slot, without requiring special software. All current and historical reports can also be exported via the Frigga Data Center software.

# Auto-generated PDF & CSV

## No Software Required



PDF



CSV



**Image:** Frigga M2D Auto-generated PDF & CSV reports. This image illustrates the direct generation of PDF and CSV files when the data logger is connected to a computer, compatible with both Windows and Mac operating systems.

- **LED Alarm Indicator:** The device includes an LED alarm function that activates if the monitored temperature exceeds pre-set thresholds, providing immediate visual alerts.
- **Versatile Applications:** Suitable for monitoring and recording temperatures in various sectors including cold chain, food, pharmaceutical, and laboratory environments.



Cold-chain Transportation



Medicine Storage



Food Refrigeration



Greenhouse & Planting



Environmental Testing

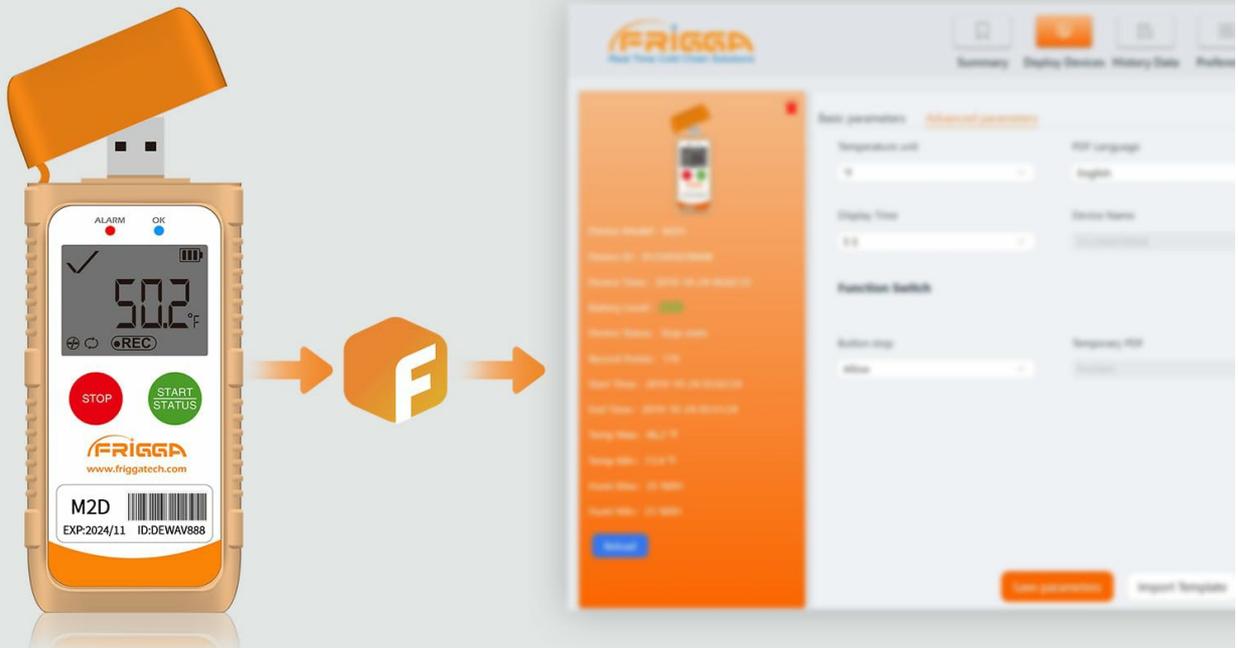


Commercial & Industry

**Image:** Frigga M2D Applications. This image displays various use cases for the data logger, including Cold-chain Transportation, Medicine Storage, Food Refrigeration, Greenhouse & Planting, Environmental Testing, and Commercial & Industry.

- **Frigga Data Software Compatibility:** Companion software (available via the Frigga website) allows for advanced configuration of logging conditions, including delayed start, logging intervals, temperature units, time zones, and alarm ranges. It also provides charting, statistical analysis, and data export to Excel and PDF.

# Parameter Settable via Frigga Data Center



Temperature unit switch



Settable alarm ranges



Data storage & analysis



Chart comparison multiple devices

**Image:** Frigga M2D Parameter Settable via Frigga Data Center. This image shows the Frigga Data Center software interface, demonstrating how various parameters like temperature units, display time, logging intervals, and alarm settings can be configured for the data logger.

- **Visual LCD Display:** The LCD screen provides real-time temperature readings, alarm status, and statistical information. Users can switch between Fahrenheit and Celsius units.
- **Long-lasting Battery Life:** Equipped with a CR2450 battery, ensuring extended operation suitable for remote or hard-to-reach locations.
- **IP65 Waterproof Grade:** The device is designed with an IP65 rating, offering protection against dust and water splashes.

# IP65 Waterproof Grade



**Image:** Frigga M2D IP65 Waterproof Grade. This image visually represents the data logger's IP65 waterproof rating, showing water splashing around the device.

## 4. SETUP

---

1. **Initial Inspection:** Upon receiving your Frigga M2D data logger, inspect it for any visible damage.
2. **Battery Activation:** The device comes with a pre-installed CR2450 battery. Ensure any protective tabs are removed if present.
3. **Software Installation (Optional for Advanced Configuration):** While basic data retrieval does not require software, for advanced settings such as delayed start, logging intervals, temperature units, time zones, and alarm ranges, download and install the Frigga Data Software from the official Frigga website. The software is compatible with Windows and Mac OS.
4. **Device Configuration:** Connect the data logger to your computer via the USB port. Use the Frigga Data Software to set your desired logging parameters. This includes setting the start delay, logging interval, temperature units (°C/°F), time zone, and temperature alarm thresholds.

## 5. OPERATING INSTRUCTIONS

---

1. **Starting a Recording:** Press and hold the **Start Button** until the 'REC' icon appears on the LCD screen, indicating that recording has begun. If a delayed start was configured, the device will begin recording after the set delay period.
2. **Monitoring Status:** The LCD screen will display the current temperature, recording status (REC), and battery level. The LED indicator will flash to confirm operation or indicate an alarm.
3. **Switching Temperature Units:** Briefly press the **Start Button** to toggle between Celsius (°C) and Fahrenheit (°F) on the LCD display.
4. **Stopping a Recording:** Press and hold the **Stop Button** until the 'REC' icon disappears from the LCD screen. The recording session is now complete.
5. **Alarm Indication:** If the temperature exceeds the pre-set alarm thresholds during recording, the LED indicator will flash, and an alarm icon may appear on the LCD screen.

## 6. DATA EXPORT AND ANALYSIS

---

1. **Direct Report Generation:** After stopping a recording, remove the USB cover and plug the data logger into a USB port on your computer. The device will automatically generate a PDF report and a CSV data file. These files can be accessed directly from the device's storage, which appears as a removable drive.
2. **Using Frigga Data Software:** For more detailed analysis, charting, and statistical reports, open the Frigga Data Software on your computer. Connect the data logger, and the software will allow you to download the recorded data. You can then export this data to various formats, including Excel and PDF, and generate calibration certificates.

## 7. MAINTENANCE

---

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or immerse the device in liquids.
- **Battery Replacement:** The Frigga M2D uses a CR2450 coin cell battery. When the battery indicator shows low power, replace the battery by carefully opening the battery compartment (refer to the device's physical markings for access). Ensure correct polarity.
- **Storage:** Store the data logger in a cool, dry place away from direct sunlight and extreme temperatures when not in use.

## 8. TROUBLESHOOTING

---

- **Device Not Starting Recording:** Ensure the battery is not depleted. Check if the device was properly configured using the Frigga Data Software. Press and hold the Start Button firmly until 'REC' appears.
- **No Data Exported via USB:** Ensure the USB connector is fully inserted into the computer's port. Try a different USB port or computer. Verify that the recording session was stopped correctly.
- **LED Alarm Flashing:** This indicates that the temperature has gone outside the pre-set alarm thresholds. Review your recorded data to identify the exact time and duration of the excursion.
- **Software Issues:** If experiencing problems with the Frigga Data Software, ensure you have the latest version installed from the official website. Refer to the software's help documentation or contact Frigga technical support.

## 9. SPECIFICATIONS

---

Feature	Specification
Model Name	M2D
Measurement Range	-30°C ~ +70°C (-22°F ~ +158°F)
Accuracy Range	±0.5°C (-20°C ~ +40°C); ±1°C for other ranges
Memory Capacity	Max 14400 readings
Connectivity Technology	USB
Display Type	Digital LCD
Special Features	Alarm, Fast Reading System, High Accuracy, Waterproof (IP65)
Battery	CR2450
Dimensions	12.7 x 5.08 x 0.76 cm
Weight	158.76 g
Material	Plastic
Certifications	ANSI, ASME, ASTM, CCC, CE, CSA, EMC, ETL, FCC, FDA, FE, HACCP, ISO 13485, ISO 9000, ISO 9001, NIST, NSF, RoHS, UL, WEEE

## 10. WARRANTY AND SUPPORT

---

Frigga provides 24/7 technician support via email for any issues or inquiries regarding your M2D data logger. For specific warranty information, please refer to the documentation included with your purchase or contact Frigga customer service directly. You can also scan the QR code provided with your product for video tutorials and additional support resources.

