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# Frigga U1

# Frigga U1 Disposable Temperature Data Logger Instruction Manual

Model: U1

### 1. Introduction

The Frigga U1 Disposable Temperature Data Logger is designed for reliable and accurate temperature monitoring during cold chain transportation and storage. This single-use device records temperature data over an extended period and generates automatic PDF and CSV reports upon connection to a computer, eliminating the need for specialized software or drivers.



Image 1.1: The Frigga U1 Disposable Temperature Data Logger, showing its compact USB design.

## 2. SETUP AND OPERATION

Follow these steps to set up and operate your Frigga U1 data logger:

### 2.1 Starting the Logger

- 1. **Press and Hold:** Locate the 'PRESS START STOP' button on the logger. Press and hold this button for more than 5 seconds.
- 2. **Confirmation:** The blue LED indicator will start to flash, indicating that the logger has successfully started recording.
- 3. Serial Number: Tear off the serial number label for your reference and record-keeping.

### 2.2 Checking Logger Status

During operation, you can check the current status of the logger:

- Press Button Briefly: Press the 'PRESS START STOP' button once.
- **LED Indication:** The LED indicators will flash to show the current status (e.g., recording, alarm status). Refer to the device's LED pattern guide for specific meanings.

### 2.3 Stopping the Logger

To stop the data logging process:

- 1. Press and Hold: Press and hold the 'PRESS START STOP' button for more than 5 seconds.
- 2. **Confirmation:** The red LED indicator will start to flash, confirming that the logger has successfully stopped recording.
- 3. **Data Retrieval:** After stopping, tear off the transparent plastic cover to expose the USB connector. Connect the logger to a USB port on a computer to retrieve the data.



Image 2.1: Diagram illustrating the start, status request, and stop procedures for the Frigga U1 data logger.

### 3. DATA RETRIEVAL AND REPORTING

The Frigga U1 logger automatically generates comprehensive reports without requiring any special software installation.

- 1. **Connect to USB:** Once logging is complete and the device is stopped, plug the logger into any standard USB 2.0 port on a computer (Windows or Mac).
- 2. **Automatic Report Generation:** The device will automatically generate a PDF report and a CSV data file. These files can be found in the removable drive that appears on your computer.
- 3. **Review Data:** Open the PDF report for a summary, graph, and key statistics. The CSV file provides raw temperature data for detailed analysis.





# Auto PDF Report Plug and play

The recorded temperature data report can be easily retrieved from the device by connecting it to a computer without software.















Image 3.1: Illustration of connecting the Frigga U1 to a computer to automatically generate PDF and CSV reports.

### 4. KEY FEATURES

- Accurate Temperature Data: Equipped with an advanced internal sensor, providing a measuring range of -30°C to 70°C (-22°F to 158°F). Accuracy is ±0.5°C (-20°C to +40°C) and ±1°C for other ranges. Note: The device currently supports Celsius degrees only.
- Auto-Generated Reports: Directly produces PDF and CSV reports upon USB connection, requiring no software
  or driver installation.
- **LED Alarm Indicator:** Features an LED alarm function that alerts users if the temperature exceeds pre-set thresholds, crucial for maintaining temperature stability.
- **Delayed Start Design:** Includes a 30-minute time delay before logging begins. This prevents false alarms when the temperature is briefly outside the acceptable range during initial placement, protects the device, and conserves energy.
- High Capacity: Capable of storing up to 28,800 data points, suitable for long-term monitoring up to 200 days.
- **IP68 Waterproof Grade:** Designed to be highly resistant to water and dust, ensuring reliability in various environments.



Image 4.1: Overview of the Frigga U1's features, including 200 days logging, LED indicator, press button, and USB 2.0 interface.



Image 4.2: Highlighting the user-friendly interface and IP68 waterproof rating of the Frigga U1.

### 5. APPLICATIONS

The Frigga U1 Disposable Temperature Data Logger is suitable for a variety of applications requiring precise temperature monitoring:

- Cold-chain Transportation
- Medicine Storage
- Food Refrigeration
- Greenhouse and Planting Environments
- · Environmental Testing
- · Commercial and Industrial Monitoring



Image 5.1: Visual examples of the Frigga U1's diverse applications in cold chain and environmental monitoring.

## 6. SPECIFICATIONS

Parameter	Value
Model Number	U1
Measurement Range	-30°C ~ 70°C (-22°F ~ 158°F)
Accuracy Range	$\pm 0.5$ °C (-20°C ~ +40°C); $\pm 1$ °C for other ranges
Memory Capacity	Max 28800 readings
Log Interval	10 minutes (adjustable from 10s to 24h)
Start Delay	30 minutes
Report Format	PDF & CSV (auto-generated)
Interface	USB 2.0
Waterproof Grade	IP68
Dimensions	Approximately 2.95 x 1.22 inches



Image 6.1: Detailed product parameters and dimensions of the Frigga U1 data logger.

### 7. TROUBLESHOOTING

- Logger Not Starting: Ensure you press and hold the 'PRESS START STOP' button for more than 5 seconds until the blue LED flashes. If it still doesn't start, the device might be faulty or its battery depleted.
- Logger Not Stopping Manually: While the manual stop button is designed to work, some units may require
  connection to a computer to finalize the stop process and generate reports. If the red LED does not flash after
  holding the button, connect the logger to a computer to ensure data is saved and the logging process is
  terminated.
- No Report Generated After USB Connection:
  - Ensure the logger was properly stopped (red LED flashed).
  - Try connecting to a different USB port or another computer.
  - Check if the computer recognizes the device as a removable drive. If not, the USB connection might be faulty.
- Inaccurate Readings: Ensure the logger is placed in an environment where air circulation is adequate and not

directly exposed to extreme localized heat or cold sources that do not represent the overall environment.

### 8. MAINTENANCE

The Frigga U1 is a disposable device and requires minimal maintenance. Keep the USB connector clean and dry before use. Store unused loggers in a cool, dry place away from direct sunlight.

### 9. WARRANTY AND SUPPORT

Each Frigga U1 Disposable Temperature Data Logger comes with a warranty. Please refer to the warranty card included in your package for specific terms and conditions.

- User Manual: Scan the QR code on the warranty card to access the digital user manual.
- Calibration Certificate: Connect the logger to your computer to export the calibration certificate.
- **Technical Support:** For any problems or inquiries, please contact our 24/7 Technician Support via email. Contact details are available on the warranty card or the official Frigga website.

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### Related Documents - U1



### FRIGGA V5 Temperature and Humidity Data Logger User Manual

User manual for the FRIGGA V5 Temperature and Humidity Data Logger, detailing its features, operation, setup, and reporting functions for cold chain logistics.

Frigga Data Center User Manual

#### Frigga Data Center User Manual V 1.0.0

Comprehensive user manual for Frigga Data Center software, guiding users through installation, data management, device configuration, cloud services, and compliance features for cold chain monitoring.

