



VFC800-USB

Generic Control Solutions VFC800-USB Temperature Data Logger User Manual

Model: VFC800-USB

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1. INTRODUCTION

The Generic Control Solutions VFC800-USB Temperature Data Logger is designed for precise and reliable temperature monitoring. This device features a 10-foot single smart probe, allowing for flexible placement and accurate data collection. It is equipped with an audible alarm and a flashing red LED to signal temperature excursions, providing immediate alerts. Data can be downloaded via the CS VTMC software or directly as a PDF file through a USB connection. The VFC800-USB is powered by a standard plug-in power adapter and a USB cable, ensuring continuous operation.

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your VFC800-USB Temperature Data Logger. Please read it thoroughly before using the device to ensure proper function and safety.

2. SAFETY INFORMATION

Please observe the following safety precautions to prevent damage to the device and ensure user safety:

- Do not expose the data logger to extreme temperatures or humidity outside its specified operating range.
- Use only the provided power adapter and USB cable.
- Avoid dropping or subjecting the device to severe impact.
- Do not attempt to open or modify the device. Refer all servicing to qualified personnel.
- Keep the device away from strong electromagnetic fields.
- Ensure the smart probe is securely connected before operation.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- VFC800-USB Temperature Data Logger Unit

- 10 Ft Single Smart Probe
- USB Cable
- AC/DC Power Adapter
- User Manual (this document)



Figure 1: VFC800-USB Temperature Data Logger with connected probe.

This image shows the main VFC800-USB data logger unit, typically red in color, with a smart probe connected. The probe extends from the unit, illustrating its 10-foot length. The unit features ports for USB and power input.

4. SETUP

4.1 Connecting the Smart Probe

1. Locate the smart probe connector port on the VFC800-USB data logger.
2. Align the smart probe connector with the port and gently push until it clicks into place. Ensure a secure connection.
3. The smart probe is hot-swappable, meaning it can be connected or disconnected without powering down the data logger, though it is recommended to pause logging if possible.

4.2 Powering the Device

1. Connect the AC/DC power adapter to the power input port on the data logger.
2. Plug the power adapter into a standard electrical outlet.
3. Alternatively, connect the data logger to a computer using the provided USB cable. The device can be powered via USB.
4. Upon successful power-up, the status indicator LED will illuminate.

4.3 Software Installation (CS VTMC)

To fully utilize the data logger's features, including configuration and advanced data analysis, install the CS VTMC software on your computer.

- Obtain the latest version of CS VTMC software from the manufacturer's official website or the provided installation media.
- Follow the on-screen instructions to complete the installation.
- Connect the data logger to your computer via the USB cable after software installation. The software should detect the device automatically.

4.4 Initial Configuration

Before starting data logging, configure the device settings using the CS VTMC software:

- **Logging Interval:** Set how frequently the device records temperature data.
- **Alarm Thresholds:** Define upper and lower temperature limits for alarms.
- **Start Mode:** Choose between immediate start, delayed start, or button-press start.
- **Logger ID:** Assign a unique identifier to your data logger for easy tracking.
- **Time Synchronization:** Ensure the data logger's internal clock is synchronized with your computer's time.

5. OPERATING INSTRUCTIONS

5.1 Starting Data Logging

- If configured for immediate start, logging will begin as soon as the device is powered on or configured via software.
- For delayed start, logging will commence at the programmed time.
- If configured for button-press start, press and hold the designated start button on the data logger until the status LED indicates logging has begun (refer to LED indicator section).

5.2 Monitoring Status and Alarms

The VFC800-USB provides visual and audible indicators for its operational status and temperature excursions:

- **Status LED:** A green LED typically indicates normal operation and active logging. Consult the CS VTMC software manual for specific LED blink patterns and their meanings.
- **Audible Alarm:** An audible alarm will sound if the temperature exceeds or falls below the configured alarm thresholds.
- **Flashing Red LED:** A flashing red LED accompanies the audible alarm, indicating a temperature excursion. This alarm status can be viewed for up to 30 days at a glance.

5.3 Downloading Data

Data can be retrieved from the logger using two methods:

1. Via CS VTMC Software:

- Connect the data logger to your computer via USB.
- Open the CS VTMC software.
- Select the connected data logger and follow the software prompts to download the recorded data.
- The software allows for detailed analysis, graphing, and export of data in various formats.

2. As a PDF via USB:

- Connect the data logger to a computer using the USB cable.
- The data logger will appear as a removable storage device.
- Locate and open the generated PDF report file. This report typically includes a summary of the logging session, temperature graph, and alarm events.

6. MAINTENANCE

6.1 Cleaning

- Wipe the exterior of the data logger with a soft, damp cloth.
- Do not use abrasive cleaners, solvents, or immerse the device in water.
- Ensure the probe tip is clean and free from debris for accurate readings.

6.2 Smart Probe Replacement

The VFC800-USB utilizes hot-swappable smart probes, simplifying replacement:

1. Gently pull the existing smart probe connector from the data logger port.
2. Align the new smart probe connector with the port and push until it clicks into place.
3. The data logger will automatically recognize the new probe.

6.3 Storage

When not in use, store the data logger in a cool, dry place, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	No power supply or faulty connection.	Check power adapter connection to both the device and the outlet. Ensure USB cable is securely connected if powering via USB. Try a different power source or USB port.
Data not logging.	Logging not initiated or incorrect configuration.	Verify logging start mode in CS VTMC software. Ensure the start button was pressed if configured for manual start. Check if the smart probe is securely connected.
CS VTMC software does not detect device.	USB connection issue or driver problem.	Ensure USB cable is properly connected. Try a different USB port or cable. Reinstall CS VTMC software and drivers. Restart your computer.
Audible alarm or flashing red LED.	Temperature excursion detected.	This indicates the temperature has gone outside the set alarm limits. Review the environment where the probe is placed. Download data to analyze the excursion details.
Inaccurate temperature readings.	Dirty or damaged probe, or environmental interference.	Clean the probe tip. Inspect the probe for physical damage; replace if necessary. Ensure the probe is not exposed to direct heat sources or drafts that could affect readings.

8. SPECIFICATIONS

Feature	Detail
Model	VFC800-USB
Probe Type	10 Ft Single Smart Probe
Temperature Accuracy	±1 °C
Upper Temperature Range	85 °C
Power Source	AC/DC Adapter, USB
Connectivity	USB, Wireless (for data transfer/configuration)
Special Features	Hot Swappable Smart Probe(s), Audible Alarm, Flashing Red LED, PDF Data Download via USB
Display Type	No display (LED indicators only)
Included Components	Data Logger, Smart Probe, USB Cable, AC/DC Adapter
Item Weight	2 Pounds

9. WARRANTY INFORMATION

The Generic Control Solutions VFC800-USB Temperature Data Logger is covered by a manufacturer's limited warranty. Please refer to the warranty card included with your product or visit the official Generic Control Solutions website for detailed terms and conditions regarding warranty coverage, duration, and claims process. Keep your proof of purchase for warranty validation.

10. CUSTOMER SUPPORT

For technical assistance, troubleshooting, or inquiries regarding your VFC800-USB Temperature Data Logger, please contact Generic Control Solutions customer support. Contact information, including phone numbers and email addresses, can typically be found on the manufacturer's official website or in the product packaging.

When contacting support, please have your product model number (VFC800-USB) and purchase details readily available.