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CAS A1-13 Wireless Temperature Data Logger Instruction Manual

Contents

CAS A1-13 Wireless Temperature Data Logger

Product Information

Specifications

- **Product Name:** Data Logger
- **Usage:** Monitoring and recording temperature in vaccine refrigerators
- **Manufacturer:** DataLoggerInc
- **Website:** www.DataLoggerInc.com

Product Usage Instructions

Choose A Suitable Data Logger

- Ensure the data logger you select is compatible with monitoring temperature in vaccine refrigerators.

Proper Placement

- Install the data logger in a suitable location within the refrigerator to accurately measure temperature fluctuations.

Configure Settings

- Set up the data logger according to the manufacturer's instructions, including temperature thresholds and recording intervals.

Start Recording

- Initiate the recording function on the data logger and verify that it is capturing temperature data correctly.

Monitor and Review Data

- Regularly check the recorded data to ensure the temperature remains within the specified range for vaccine storage.

Data Storage And Reporting

- Utilize the data stored in the logger for reporting purposes or to maintain internal records of temperature fluctuations.

Additional Tips

- Consider remote monitoring options for real-time alerts and access to temperature data on your smartphone or computer.
- For further assistance or tailored solutions, contact a CAS Data Logger Application Specialist at 8009564437 or visit **www.DataLoggerInc.com**.

FAQ

- **Q: How often should I check the recorded data?**
  - **A:** It is recommended to review the data periodically, at least once a week, to ensure consistent temperature monitoring.
- **Q: Can the data logger be used for other applications besides vaccine refrigerators?**
  - **A:** Yes, data loggers can be adapted for various temperature monitoring needs beyond vaccine storage, depending on their specifications.

INTRODUCTION

A data logger is a valuable tool for continuously monitoring and recording the tempera-ture in a vaccine refrigerator. Here's a step-by-step guide on how to use one.

Choose A Suitable Data Logger

- **Temperature Range:** Ensure the logger can accurately measure temperatures within the recommended range for vaccines (typically 2°C to 8°C).
- **Storage Capacity:** Consider the amount of data you need to store and the frequency of readings.
- **Remote Access:** If you need to monitor temperature remotely, look for a logger with LAN, Wi-Fi, or Bluetooth connectivity.
- In some cases, it may be necessary to use a device with Cellular connectivity if none of these are available. Also, consider a device that utilizes cloud-based data storage to allow remote viewing.

Proper Placement

- **Data Logger Placement:** In many cases, it is desirable to place the data logger outside the refrigerator to allow the temperature to be read without opening the door. This optimizes wireless connectivity and battery life.

- **Probe Placement:** Place the sensor for the data logger in the center of the refrigerator away from the door, fan (if present), and any heat sources.
- **Secure Attachment:** Use a cable tie or adhesive to attach the prober to the shelf securely.
- **Thermal Buffer:** Consider the use of a **thermal buffer** such as a glycol bottle or nylon block to help smooth out temperature fluctuations caused by compressor cycling and door opening so the reported temperature more closely mimics the vaccine.

Configure Settings

- **Sampling Interval:** Set the desired frequency of temperature readings (e.g., every hour, every 30 minutes).
- **Alarm Settings:** Configure the logger to trigger an alarm if the temperature exceeds the recommended range.
- **Data Storage:** Ensure the logger has sufficient storage capacity to store the desired amount of data.

Start Recording:

- **Activate the Logger:** Turn on the data logger and start recording.
- **Verify Functionality:** Check the logger's display or use the accompanying software to confirm that it's recording data correctly.

Monitorand Review Data

- **Regular Checks:** Periodically review the recorded temperature data to ensure it's within the acceptable range.
- **Data Analysis:** Use the logger's software or export the data to a spreadsheet program to analyze temperature trends and identify any deviations.
- **Alarm Notifications:** If the logger is configured for alarms, respond promptly to any temperature alerts.
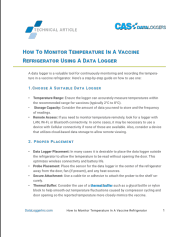

Data Storage And Reporting

- **Backup Data:** Regularly back up the recorded data to prevent loss.
- **Reporting:** Generate reports to document **temperature compliance** for regulatory purposes or internal records.

Additional Tips

- **Calibration:** Ensure the data logger is calibrated regularly to maintain accuracy.
- **Battery Life:** Monitor the battery level and replace batteries as needed.
- **Remote Monitoring:** If using a Wi-Fi, Bluetooth, or cellular-enabled logger, set up remote monitoring to receive alerts and access data from your smartphone or computer.
- By following these steps, you can effectively use a data logger to monitor the temperature in your vaccine refrigerator and ensure the safety and efficacy of the vaccines.
- For further information on **Vaccine Temperature Monitoring**, or to find the ideal solution for your application-specific needs, contact a CAS Data Logger Application Specialist at 8009564437 or **www.DataLoggerInc.com**.
- **DataLoggerInc.com** How to Monitor Temperature In A Vaccine Refrigerator

Documents / Resources

CAS A1-13 Wireless Temperature Data Logger [pdf] Instruction Manual
A1-13 Wireless Temperature Data Logger, A1-13, Wireless Temperature Data Logger, Temperature Data Logger, Data Logger

References

- **CAS Data Logger & Data Acquisition Solutions from CAS DataLoggers**
- **User Manual**