Tempsys

Real-Time Monitoring Solutions

Blood Bank / Laboratory Temperature Monitoring System
The CheckPoint Wireless Temperature Monitoring system has been designed to help the Blood Bank and Laboratory for regulatory compliance with AABB, FDA, CAP, Joint Commission, CLIA and other organizations. Performing Alarm Checks and annual re-calibration to NIST standards have been simplified. Professional installation includes full IQ/OQ validation, and consulting services to set up SOP and expedite go-live.

FEATURES

1. **Easily and accurately perform Alarm Checks at exact alarm temperature points for refrigerators and freezers.**

   **FEATURES:** Insert Alert Check Keys to sensors to instantly create alerts at specific temperature points, such as 1.3°C and 5.7°C (min/max limits 1.5~5.5°C) for the blood bank refrigerator or -19°C for the -20°C freezer. Alerts are automatically recorded with date/time and user name. Alarm check can be completed in about 5 minutes per appliance.

2. **Simplified annual temperature probe re-calibration to NIST standards with accuracy of ±0.2°C.**

   **FEATURES:** Tempsys is an A2LA accredited calibration lab, and all probes are calibrated and certified to NIST standards. When your annual re-calibration comes due, we can ship you newly calibrated Snap Calibration probes with a NIST traceable Certificate of Calibration. Unplug the old probes, snap in the new probes, and your annual re-calibration requirement is done.

3. **Easily replace sensors or change batteries.**

   **FEATURES:** Just two AA alkaline batteries power the CheckPoint G4 sensors, good for about 5 years. If in the unlikely event that a sensor must be replaced, just unscrew one screw on the sensor and replace just the top half of the sensor. The Snap Swap feature allows the sensor ID to remain the same, so the sensor continues to collect data with no need to re-configure the software.
4. **Sensor memory and redundancy to never lose data.**

**FEATURES:** If ever the server or network should fail, the CheckPoint Access Points will continue to collect and store data from all sensors. If the Access Point or repeater should fail, each sensor will individually store data for 30 days. As soon as the system is restored, the data will automatically upload to the database on the server. In this way, data is never lost. Additional data storage redundancy built into the CheckPoint software provides quick and seamless disaster recovery. A remote Tempsys webserver monitors the heartbeat of the database server 24/7 to trigger an immediate alert against any type of system wide failure.

5. **Simultaneously monitor the upper and lower sections of a blood bank refrigerator.**

**FEATURES:** Dual probe sensors have 2 temperature probes attached to a single sensor. Both temperatures are displayed together and if the difference exceeds a user defined difference, such as 1°C, then an alert is generated. A dual probe sensor can also be used for a freezer/fridge combo unit.

6. **Prevent product loss due to a door accidentally left open.**

**FEATURES:** A refrigerator door left open is the most common cause of product loss. Every CheckPoint sensor is equipped with an optional door status sensing cable. If a door is left ajar, CheckPoint will trigger an alert even before the temperature goes out of range.

7. **Monitor movement of the platelet agitator.**

**FEATURES:** CheckPoint sensor will monitor not only the temperature, but the continuous motion of the platelet agitator. If the back and forth motion should remain stopped for a user defined time period, such as 2 minutes, CheckPoint will immediately trigger an alert.

8. **Immediate alerting.**

**FEATURES:** If any equipment in the blood bank or lab should go into an alert, then an audio-visual flashing alert lamp can be activated in the middle of the lab to notify the staff. The alert lamp is IP based controlled from the server, so that lamps in different departments can be activated, such as engineering for after hours, and escalate to lamps installed in other locations if timely corrective action is not taken.

The CheckPoint software allows a schedule to be set up to notify different groups of personnel based on the day of the week and time of the day to activate lamps, send alert emails, text messages or make phone calls.

9. **Multiple sensing capability by a single sensor.**

**FEATURES:** CheckPoint sensors are designed for dual and triple sensing capabilities: CO2 + temperature + incubator alarm status (dry contact); temperature + humidity; temperature + door; temperature + motion; 2 temperature at liquid and vapor levels of LN2 freezer + liquid level, tank pressure and other alarm status.
10. **Quickly review the temperature of all blood bank refrigerators and freezers daily and electronically file the report.**

**FEATURES:** The Daily Review Report is an on-demand report to capture the current temperature and status of all blood bank appliances. Comments for any equipment can be added and then electronically signed and filed. A supervisor can retrieve the file and sign off at any time.

11. **Easily print temperature of all refrigerators and freezers at the same time of day, every day.**

**FEATURES:** Select the start date, end date and time of the day. The Time-of-Day Reading report will print a summary report of the temperature of all the appliances from the historical data at that same time of the day for the month, week or any selected period.

12. **Suppress nuisance alerts.**

**FEATURES:** CheckPoint software can temporarily suppress alerts for a designated time period while a refrigerator is being restocked. Typically the door is left open for a long period or the restocked products will temporarily raise the temperature inside the fridge. The alert suppression feature will suppress alerts for such known events and can be set up as a one-time or repeating occurrence.

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**All blood bank and laboratory equipment can be monitored.**

- Reach-In Refrigerator
- Ultra Low -80°C Freezer
- Slide Warmer
- BacTAlert
- Flood or Water Leak Detection
- Air flow
- Freezer Farm 02 level
- Walk-In Refrigerator
- Liquid Nitrogen Freezer
- Water Bath
- Platelet Agitator
- Oven
- Power Outage
- Centrifuge
- Freezers
- Heat Block
- CO2 Incubator
- Room Temp and Humidity
- Differential Air Pressure
- Voltage
- Cryostat