Wireless Temperature Monitoring System
Wireless temperature monitoring is one of the most exciting innovations in the Healthcare industry today - especially related to patient safety and industry compliance. TempTrak™ frees your staff to spend more time with patients!

When Healthcare Facilities seek a hospital-wide enterprise solution for their wireless temperature monitoring needs, they turn to TempTrak by Cooper-Atkins®. As one of the early developers of wireless temperature monitoring systems designed exclusively for the healthcare environment, Cooper-Atkins Corporation has been at the forefront of temperature monitoring since 1885, and now has TempTrak installed in over 1,000 healthcare locations in the U.S.. TempTrak is recognized as the unquestionable leader in this industry. TempTrak has over 10 years experience with more installations than all other manufacturers combined.

The TempTrak Wireless Monitoring System eliminates the time and expense of manual temperature collecting and uses “Alert Escalation”, which means no alert goes unanswered. The system can provide years of history. Data can be stored indefinitely, or it can be set for a rolling purge.

TempTrak offers 24/7 remote temperature, humidity, door open/close and pressure differential monitoring. From -328°F to +300°F, the system allows a facility to monitor an unlimited number of points in an unlimited number of buildings with one piece of software! When looking for a proven wireless system, Healthcare Facilities turn to TempTrak.

The system wirelessly transmits real-time data to an on-site or remote computer and provides instantaneous alerts and reports for trend analysis, historical data files and documentation of corrective actions.

TempTrak is most popularly used for monitoring storage temperatures of medicines, food and blood. In addition, TempTrak offers a comprehensive NIST solution for Laboratory usage. TempTrak eliminates the need for manual equipment monitoring and provides highly accurate data whether for Pharmacy, Laboratory, Dietary or Nursing Facilities.
TempTrak transmitters (sensors) are battery powered, and require no hardwired connectivity. These sensors are easily mounted in any location, and transmit wirelessly to the TempTrak software that collects and records data 24/7.

TempTrak software is installed on a server and secured with all other critical data. The hardware is connected on the existing network.

In the event the server is unavailable, the TempTrak system can operate in a fallback “batch” mode where the transmitter data is temporarily saved in a “buffer” at the base receiver.

Each transmitter (sensor) monitors against preset conditions that are defined by the user and will alert by a variety of methods, including: pager, cell phone, e-mail and even voice when an alarm condition exists.

TempTrak software creates reports for any hospital department on all information collected through the system, and it provides documentation of corrective actions.

All communications between the transmitters and the base receiver are via a 900 MHz wireless frequency-hopping network. All hardware can co-exist with other wireless communication operating in the same, or nearby, frequency bands.

Transmitter information recorded to the database is time-stamped and cannot be altered through user interface. Temperature data can be displayed in either °F or °C.
The proper storage of all medications and vaccines throughout a hospital is a critical component for regulatory compliance as well as patient safety. TempTrak is a reliable, proven system that is recognized by pharmacists nationally as a system that provides for managing temperature control of sensitive inventory. TempTrak is a real-time, 24/7 monitoring system that combines the automated collection of temperature data with real-time notification alerts that can be customized to specific pharmacy requirements. TempTrak also offers solutions for 797 compliancy that become integrated into the system.

Quality patient care is your primary focus. The TempTrak system allows nurses to provide top quality patient care without the worry of spending valuable time gathering temperatures of refrigeration units within their specific area. Automating the temperature monitoring process of all medication and nutrition refrigerators and freezers will free you from this manual task and allow you to devote more time and energy where you are needed most. TempTrak can monitor blanket warmers, incubators and other equipment. Whether in the OR, ICU, NICU or PICU, our system will meet or exceed all regulatory compliance and ensure accuracy, reporting and alerting on a real-time, 24/7 basis.

Maintenance of various refrigeration and other temperature-sensitive equipment can be a demanding and time-consuming task. Departmental protocols demand immediate response, and valuable time can be consumed by unwarranted work orders and calls. TempTrak is a proven ally of facilities personnel because the system is exception-based, putting out temperature alerts via pager, text message or e-mail only when equipment has failed to meet user-defined limits. The software provides valuable diagnostic temperature data on each piece of equipment monitored, and is often used as a tool to help determine a maintenance schedule….before a serious problem occurs. You must attend to ALL equipment, regardless of department, and TempTrak can be another assistant for you working quietly in the background.
The continuous monitoring of temperatures in Blood Bank equipment is vital in the safeguarding of blood and blood products. With a wide variety of applications beyond temperature monitoring in refrigerators, you will find that TempTrak will increase overall accuracy and enhance patient safety. TempTrak will provide a detailed history of all recordings as well as full documentation of alarming and corrective actions to meet regulatory compliancy. NIST certified products and an ongoing NIST certification program offer a complete solution to your environment.

Whether your need is to monitor walk-in coolers and freezers in the kitchen, nutrition refrigerators at the Nurses’ stations or grab-n-go in the cafeteria, our system can provide real-time information as well as historical data to enhance your compliance. The proper storage is integral to any comprehensive food safety HACCP plan, and TempTrak’s vast experience in the foodservice area, coupled with a complete understanding of HACCP compliancy, allows us to offer unique solutions to everyday problems. Serving high-quality meals is essential to superior patient care. Our user-friendly software allows you to establish monitoring protocols specific to Nutrition’s needs as well as offering a multitude of alert choices (pop-up, e-mail, text messaging, etc.) that will help you to better manage and protect your perishable and temperature-sensitive inventory.
TempTrak, introduced in 1999, is the industry’s first Wireless Temperature Monitoring System, and now has tens of thousands of transmitters (sensors) installed in Healthcare Facilities around the world. TempTrak will support an unlimited number of base receivers and transmitters, multiple locations / buildings, and unlimited users and system views.

**TempTrak Transmitters (Sensors):**
- 900 MHz spread spectrum frequency hopping RF
- 24/7 remote temperature monitoring (every 5 minutes with a 1 minute delta sampling to detect rapid temperature changes) supporting temperature ranges from -328° to 300°F (-200° to 148.9°C)
- NIST Certified temperature transmitters (sensors)
- Internal & External Dual temperature transmitters (sensors) 0° to 140°F (-17° to 60°C)
- Humidity and Temperature - monitor temperatures from -20° to 150°F (-28.9° to 65.6°C) and humidity from 0% to 99% RH
- Door Open / Close
- Pressure Differential (range: ± 2” to ± 20” H2O, accuracy ± 0.5% of range)
- Transmitter (sensor) (battery operated)
- Transmit up to several hundred feet

**TempTrak Probes:**
- Moisture / Leak Detector
- NIST certified Glycol Product Simulators -31° to 200°F (-35° to 93.3°C)
- Ultra-Low Thermistor -328° to 32°F (-200° to 0°C)
- Standard Air / Surface Probe -20° to 200°F (-28.9° to 93.3°C)
- Liquid Probe -31° to 200°F (-35° to 93.3°C)
- 10” Hot Probe 300°F Max (148.9°C Max)
- Incubator CO2 Sensor (0 to 10%)
- Pressure Differential (+/- 2” H2O, relative accuracy of +/- 0.5% of the range)
- Particle Count Sensors, automatic and hand held
- Dishwasher Probe, includes Pipe Clamp 67° to 221°F (19.4° to 105°C)

**TempTrak Repeater (Signal Booster):**
- No limit to the number of transmitters (sensors) a single Repeater can boost
- Transmission range can be up to 4 miles (depending on the facility and type of construction)
- In the event of a power outage each TempTrak Repeater has an on-board battery back-up that will last an average of 24 hours
- Fully “supervised” and, in the event that it is tampered with, it will send a notification to the system
- Wall mounting (optional outdoor enclosure available)
- Does not require connectivity to another repeater or to the network

**TempTrak Base Receiver and Memory Buffer:**
- Attached to the network either through the LAN network port or serially direct to a PC
- In the event of a network outage, TempTrak stores 1 temperature reading per hour until server is back online
- Storage capacity of a Memory Buffer with 200 transmitters, communicating every 15 minutes, will have data stored for 400 hours (16 days)
- Each Receiver is fully “supervised” and, in the event that it is tampered with, it will send a notification to the system
TempTrak Software

Minimum Server Software Requirements:
(The software is loaded onto your in-house server)
Microsoft Internet Explorer 6.0 (or higher), Internet Information Services (IIS), Sun Java, Microsoft XML, Microsoft Active X, Microsoft Excel

Minimum Server Hardware Requirements:
- Intel/AMD Processor 2.0+ GHz (4GB RAM)
  (Pentium 4, Core Duo, Quad Core, Xeon or similar)
  (Athlon, Phenom or similar)
- 2 x 160 GB Hard Drives with:
  - Raid-1
  - ATA-100/SATA 7200 RPM
  - (SCSI 10k/15k RPM)
- Network Card 10/100/1000 MB
- Serial Port (Or IOGear USB-Serial Adapter)
- 56k V.90 Modem (Required for digital paging)
- IVR Modem (Required for voice notification)
- DVD/RW Drive and USB Port

TempTrak is a “browser” based application allowing any user with a valid logon ID to access TempTrak from any PC on their network.
- Supports “Multiple Database” per server, to accommodate multiple facilities operating on one server
- 4GB memory (recommended minimal requirement)
- Allows the user to store as much data as they wish to retain. The system can perform automatic backups

TempTrak System Alerts

When a TempTrak Transmitter identifies a monitoring point has fallen out of the pre-set range, it sends an alert notification via a variety of methods including:

- Computer monitor screen pop-ups (can be directed to any PC on the network)
- E-mails
- Pagers (digital, e-mail and SNPP)
- Cell phones (via e-mail)
- Contact switch(s) (turn lights or sirens on and off, even connect to security systems to transfer an alert)
- Voice notifications (additional hardware required)
- Scrolling message boards for use where other types of system alerts will not work
- Missed communication notification profile alerts (should a transmitter [sensor] miss its scheduled contact time)

Low battery Alert - triggered when a transmitter (sensor) detects a battery becoming low, approximately three (3) weeks before the battery will die.

Alert Escalation - makes sure no alert goes answered.

Corrective Actions - alerts may be configured by time of day and day of week to provide unlimited alert options. Complete tracking of all corrective actions by time, user and action.
I-Care Support Program

In order to provide outstanding service to our TempTrak customers, we have implemented the I-Care Support Program which includes the following features:

• **24/7 Unlimited Help Desk Support** –
  This allows the customer to call directly to the I-Care Help Desk for assistance on any issue regarding the performance of the TempTrak software.

• **Annual Software Enhancement License** –
  This provides all upgrades and enhancements that are released during the 12-month period of the I-Care contract.

• **Unlimited Web Based Training Seminars** –
  Cooper-Atkins provides Web Based Training Seminars. I-Care participants can register for participation and select topics for training. Classes will run for up to 1 hour. Seminars will cover all aspects of “How to Use” the software, including setup, configuration, reports and maintenance.

Other Packages include additional options such as Extended Warranties, On-Site Performance Validation, On-Site Training and NIST Recertification.

It is the goal of Cooper-Atkins to provide superior Help Desk support, and the I-Care Support Program has been developed to provide the highest level of customer service.