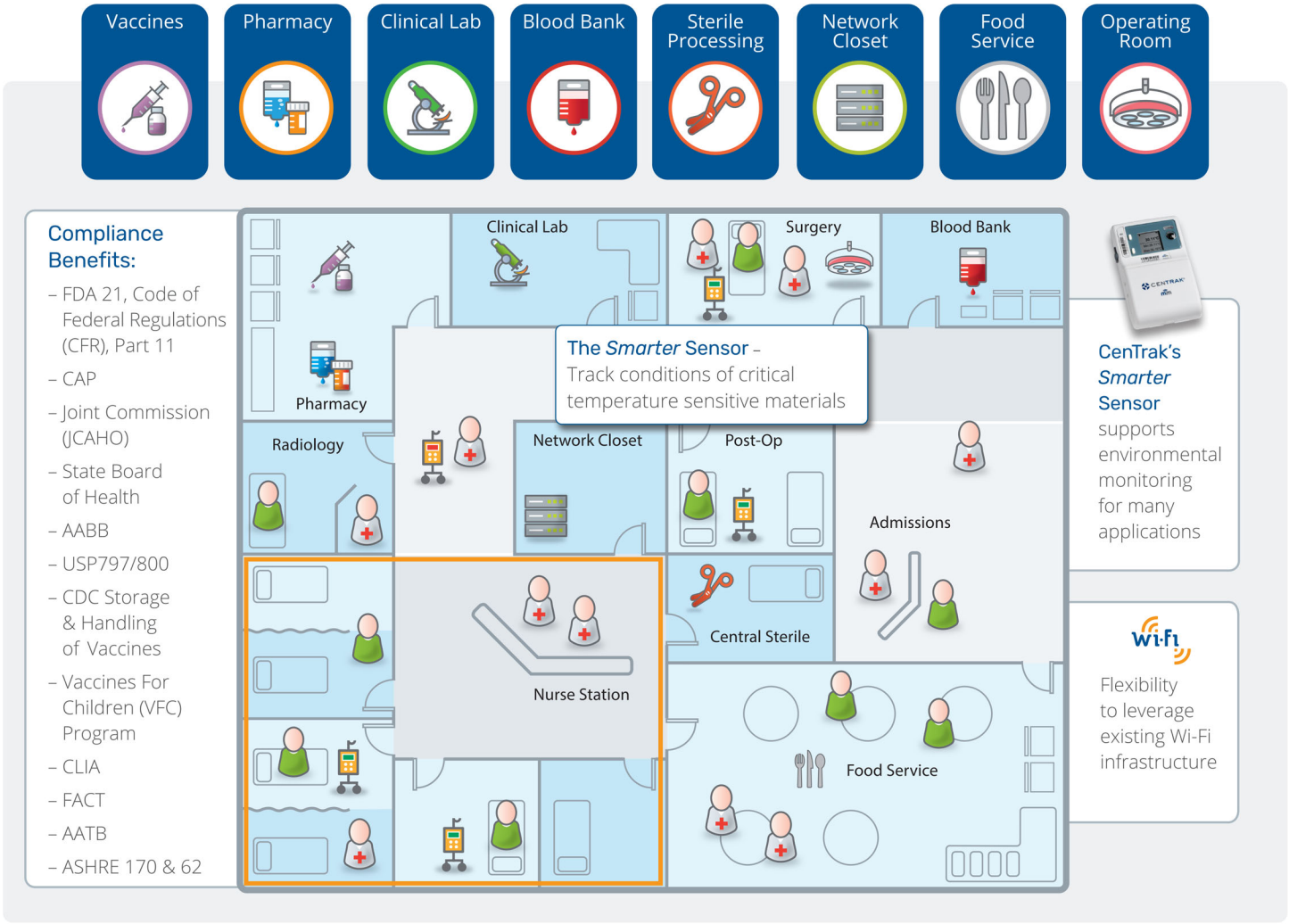
Environmental Monitoring

CENTRAK®

CenTrak's wireless temperature and environmental monitoring solution provides healthcare facilities with the ability to leverage one network to ensure all departments meet compliance standards and prevent product loss. Recording and tracking data remotely eliminates the need for manual processes, enabling greater staff efficiency. With CenTrak's Internet of Things (IoT) sensing solution, healthcare facilities that implement environmental monitoring can easily scale to CenTrak's other Enterprise Location Services™.



- Reliable and accurate wireless temperature, O_2, CO_2, humidity and air pressure sensing 24/7
- Generates automated compliance reports for any time period
- Sends alerts when measurements are sensed above or below set parameters
- Leading digital sensing and NIST certification technology enabling simple on-site probe exchange
- Dual zone temperature probe monitoring
- BACnet integration to Building Management Systems
- Communicates with existing Wi-Fi infrastructure and CenTrak-installed dedicated network
- Onboard storage for data (1 month) even when out of network
- Covers a broad range of temperatures from -200 ˚C to 200 ˚C; 0.5 ˚C accuracy
- Visual or audible alerts on board sensor
- Multiple buffer types and probe lengths
- Door ajar, dry contact liquid LN_2 level alerting and 4~20Ma connectivity

Environmental Monitoring Offerings

Vaccines

Always meet CDC vaccine recommendations.

Maintaining proper temperature conditions is essential to ensuring that vaccines are safe for patient use. Automated environmental monitoring allows staff to take immediate action when storage conditions fall outside of safe temperatures. By reducing product waste and safe-guarding inventory levels, pharmacies can make certain that vaccines are available when patients need them. CenTrak's Display Sensor is in compliance with the CDC's Vaccines For Children (VFC) program.

Pharmacy

Ensure pharmaceuticals are maintained at proper storage conditions.

CenTrak's wireless temperature and environmental monitoring solution enables pharmacies to maintain compliance, eliminate product loss, improve patient safety and increase staff productivity. Ensuring that medications are compounded and stored in accordance to USP 797 / 800, Class 5 clean room standards is critical for quality control.

Clinical Lab

Safeguard valuable clinical samples and reagents.

Manually recording refrigeration temperatures and conditions of diagnostic samples and test results can result in inconsistent data and inaccuracy. CenTrak's wireless temperature and environmental monitoring solution enables clinical staff and technicians to ensure lab tests are accurate by taking immediate action if storage temperatures begin to approach set parameters.

Blood Bank

Maintain precise temperature and humidity conditions to meet AABB standards.

For blood banks, blood must be kept at the proper temperature to ensure that it is safe and available for patients when needed. CenTrak's solution is automated, easy-to-use and customizable, allowing the user to monitor and document a range of environmental condition data. CenTrak can provide optional fire and ice testing and documentation, if needed.

Sterile Processing

Protect important aseptic equipment.

Proper disinfection during sterile processing procedures is essential to keeping critical healthcare assets and instruments germ-free and safe for patient use. Users can receive automatic alerts if there is a change in air pressure, humidity or other vital environmental conditions during disinfection.

Network & Data Closet

Effectively manage critical IT equipment conditions.

CenTrak's Smarter Sensor™ can provide ambient temperature visibility safeguarding the overheating of data storage devices. This allows healthcare staff to better manage data centers and reduce energy costs.

Food Service

Achieve food safety and quality based on HACCP standards.

For food service management, ensuring all dietary and nutritional items are kept under recommended environmental conditions is vital to making sure that patient meals are safe and available. CenTrak's wireless temperature and environmental monitoring solution provides healthcare facilities with the means to maintain shelf life and monitor perishable food items correctly, reducing food waste and safeguarding inventory levels.

Operating Room

Ensure patient safety with OR condition monitoring.

Ensuring that the operating room is kept under recommended environmental conditions is imperative to patient safety and reducing infection. CenTrak's Smarter Sensor automates the recording of air pressure, room temperature, and humidity to protect against Healthcare Acquired Infections (HAIs).

Environmental Monitoring

Use Cases Served

CenTrak Environmental Use Cases

- BacT - Alert
- Blanket - Saline Warmer
- Blanket Warmer
- Blast Chiller
- Blood Bank
- Blood Platelet with agitator
- CO_2 Incubator
- Contrast Warmer
- Cryogenic LN_2
- Cryostat
- Deli-Case/Air Curtain
- Data Closet
- Dishwasher
- Fluid Bath
- Freezer
- Heat Block
- Hot Box
- Incubator
- Morgue
- Plasma Thawer
- Pot Washer
- Refrigerator
- Refrigerator/Freezer Combo
- Room Pressure Monitoring
- Room Temperature & Humidity
- Transport Cooler
- Ultra Low Freezer
- Vaccine Freezer
- Vaccine Refrigerator
- Walk-In Freezer
- Walk-In Refrigerator/Freezer Combo
- Walk-In Refrigerator
- Wax Warmer

Product Portfolio

Environmental / Temperature Sensors

Temperature Only Sensor

Ultra-Low Temperature Sensor

Liquid Nitrogen Sensor

Ambient Temperature Humidity Sensor

Differential Air Pressure Sensor

CO_2 Incubator Sensor

O_2 Sensor

Ultra-Low & LN_2 Probe

Digital Probe & Solid Buffer

What makes CenTrak **Smarter?**

System Integration – Built for easy integration with existing Wi-Fi networks and various user interfaces

Versatile – Small footprint; buffering options; visual and audible alerts; user configurable and locating feature

Simple Installation – plug-and-play, no wiring; calibration every 2 years

Low Maintenance – Extreme battery life; move sensors as needed

Cost Effective – Probe module swap for NIST re-certification can be easily performed by the end user, with little downtime, substantially reducing labor and materials to manage the system

Contact Us: www.centrak.com | marketing@centrak.com | 800-515-2928

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