

Healthcare's Best Cryogenic Storage Monitoring Solution

Wireless Cryogenic Storage Environmental Monitoring

Maintaining a stable environment for your IVF Clinic and other cryo-storage facilities is paramount to the proper management of cryogenically frozen tissues, fluids, embryos, samples, and more.

Request a Demo View Solution Brochure

Ensure safety and reduce material loss with real-time monitoring of temperatures, liquid nitrogen fill levels, and surrounding O2 levels

CenTrak's automated wireless environmental and temperature monitoring solution is easy to use and configurable, allowing you to automatically monitor and document a range of critical information. The system will send an immediate alert if the temperature or level of liquid nitrogen and vapor within the tank approach set parameters.

Manual documentation slowing you down or producing unreliable results?

Manually recording the temperature of liquid nitrogen in cryogenic tanks can lead to delays in responding to rising temperature conditions and inconsistent data collection.

Automated environmental monitoring solutions keep the proper conditions of cryogenic dewars and tanks

CenTrak's temperature and environmental monitoring system generates a variety of useful reports on a single or multiple tank unit, temperature and environmental graphs, and corrective action response, all with date range reporting options. Customizable alert notifications allow the user to set the parameters and designate the alert method used.

Our staff satisfaction has increased by offloading monotonous tasks and enhancing their safety.

Join the hundreds of healthcare facilities that have made the switch.

Schedule a demo and see what CenTrak can save you.

Request a Demo

Always-on, automated monitoring of critical cryogenically frozen materials

Ensure proper storage and handling while maintaining efficacy and compliance related to frozen tissues, fluids, and samples.

Patient Safety

Make sure that cryogenically frozen items are kept safe and ready for patients.

Loss Prevention

Safeguard critical and valuable frozen materials in storage and in transport.

Regulatory Compliance

Designed to simplify conformity with all applicable industry standards.

Staff Efficiency

Eliminate time-consuming manual checks, freeing up staff for other tasks.

Enterprise solution for cryogenic storage monitoring and beyond

Preserve tissues, organs, and samples in cryogenic storage with CenTrak's wireless, real-time environmental monitoring system. Real-time notifications allow staff to act quickly if conditions move beyond user-set parameters.

- Temperature Sensors

Maintain Optimal Conditions for Cryogenic Storage

CenTrak's LCD-display Temperature Sensor enables a cost-effective mechanism to measure the conditions of refrigerators, freezers, coolers, cryogenic tanks, and other storage areas for standard temperature measurements, ultra-low temperatures, and liquid nitrogen fill levels. Two ports enable dual-zone monitoring (-200 C to +125 C range with selected probes) or single-zone with optional door sensor. 30 days of measurement data is stored offline for retrieval in the event of a power or network outage. The sensor features configurable reporting & measurement rates (5 to 60-minute intervals) and is equipped with a 2-year battery life. Multiple buffer types and probe lengths are available to suit a variety of needs across your healthcare enterprise.

Request Sensor Samples

This sensor is also used for:

- Clinical Laboratory
- Vaccines
- Pharmacy
- Blood Bank
- Food Service
- Differential Air Pressure and Oxygen Monitoring

Protect stored items from hazardous environments

Facilities can also utilize CenTrak's differential air pressure (DAP) sensor to ensure cryo rooms are properly sealed. CenTrak Oxygen (O₂) sensors continuously monitor oxygen levels (0 to 25% volume detection range) to offer protection from hazardous environments. In the event of a liquid nitrogen leak or a situation where the displacement of oxygen may occur, staff are immediately alerted to unsafe oxygen levels. Built-in LCD display and optional strobe lamp integration enable staff to view environmental conditions, prior to entering the room. Both sensors offer a 2-year battery life with low-battery alert feature and configurable reporting & measurement rates (5- to 60-minute intervals).

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The DAP sensor is also used for:

- Blood Bank

- Negative Pressure Rooms
- Real-Time Alerting

Clear and constant visibility into cryogenic inventory and critical areas

Real-time notifications are based on sensing value, device status (probe disconnect, door ajar, low battery), and process breakdowns. These alerts and customizable escalation procedures ensure staff take immediate action when conditions fall outside of safe parameters. An integration into Active Directory enables notification delivery based on user permissions and staff scheduling. When an alarm is triggered, the corrective action performed is logged in the system for future analysis. Configure hundreds of sensors, alerts, and users through a simple import/export tool. Alerts are sent via:

- Email
- SMS/MMS
- Alarm, Lights, Strobes
- Phone Calls

Request a Software Demo

- Regulatory Reporting

Auto-generated compliance report for ultimate confidence

Automated environmental monitoring solutions for healthcare eliminate the need for costly manual documentation and the potential for human error. The system automatically produces a variety of compliance reports and sensor audit logs, based on individual devices or a customized grouping.

- 21 CFR Part 11
- Joint Commission
- State Board of Health
- Clinical Laboratory Improvement Amendments
- Foundation for the Accreditation of Cellular Therapy

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- Environmental Monitoring Technology

Easy installation for enterprise scalability

CenTrak's environmental monitoring solution operates under various network configurations, such as CenTrak UHF (i.e., 900 MHz) and/or Wi-Fi (Cisco CCX, Aruba ACX, UDP), including support for WPA2 Enterprise deployments. Devices are fully configurable in the field and support over-the-air firmware upgrades. BLE connectivity allows for a simple setup. CenTrak's Environmental Monitoring technology for healthcare provides a scalable solution to utilize in any department, across the enterprise.

Request a Demo

CenTrak technology also supports:

- Staff and Patient Safety
- Clinical Workflow
- Asset Tracking and Management
- NIST Certification Services

Meet regulatory compliance with assured accuracy

CenTrak adheres to ISO-17025 quality protocols. Each probe and sensor are NIST certified and documented before shipment to your facility. Certificates may be reviewed directly within the environmental monitoring software, where automatic notifications pertaining to upcoming re-certifications are also available. NIST services can be provided by CenTrak or one of our certified partners.

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What are you waiting for? Schedule a demo today.

With the industry's most scalable and robust Real-Time Location System (RTLS), CenTrak has helped over 2,000 world-class healthcare facilities increase productivity, streamline workflows, drive higher patient and staff satisfaction, and reduce costs.

First Name \

Last Name \

Email \

Phone Number \

Company Name \

If part of a healthcare network, please also include the facility name

Company Type \

Select an optionEnd-UserPartnerA&E/ConsultantVendorOther

Questions/Comments

Submit