



Enterprise-wide visibility for multiple IVF site locations.

For IVF Clinics and cryo-storage facilities, real-time monitoring of temperatures and fill levels of liquid nitrogen in cryogenic dewars and tanks is essential to facilitate success as part of the in vitro fertilization process. Whether the need is for vitrification or long-term cryo-preservation, CenTrak's *smarter* wireless environmental monitoring solution enables these facilities to maintain the required temperatures to ensure the proper storage of donor samples while automating data collection.

Why Automate?

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 systems are easy to use and configurable, allowing the user to automatically monitor and document a range of information such as temperature, level alerting, humidity, O₂ and CO₂. At the application-level users can view cryogenic tank groups and receive alerts when one is outside of its monitored threshold.

CenTrak's temperature and environmental monitoring system can generate a variety of useful reports on single or multiple tank units, 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.

Compliance Benefits:

CenTrak's temperature and environmental monitoring solution is designed to simplify conformity with all applicable industry standards.

Maintaining proper temperature conditions of all types of cryogenic dewars and large tanks is essential to keeping eggs and embryos safe. A wireless environmental monitoring solution sends alerts if the temperature or levels of the liquid nitrogen and vapor within the tank approach set parameters. This allows staff to safeguard egg, sperm and embryos, ensuring that they are safe and available when donors need them.

- NIST certified
- Communicates with existing Wi-Fi infrastructure and CenTrak-installed dedicated network
- Customizable reporting rates
- Low power consumption for long battery life
- Collection and onboard storage of data (1 month at 15 minutes) even when out of network
- + / - 0.5 °C accuracy
- Covers temperature range from -200 °C to 200 °C
- Customizable alerts: email, phone call, text, flashing strobe



CenTrak's Environmental Sensor can provide immediate alert notifications when tank filling intervals exceed threshold limitations via dry contact from a LN₂ tank controller box.



IVF or Cryopreservation Site

- Dewar or Cryo Tank
- Temperature, Level-alert, and O₂ monitoring*



Heat Block

- Controlled warming of donor samples



Incubator

- Warming of petri dishes for specimen preparation



CO₂ Incubator

- CO₂ and temperature monitoring for optimal specimen growth



Continuous data collection of the dry shipping dewar during the transportation process for automatic historical upload to the CenTrak network.

* Requires customer provided O₂ sensor with 4~20Ma or 0-10VDC output

Product Portfolio

Environmental / Temperature Sensors



Temperature Only Sensor



Ultra-Low Temperature Sensor



Liquid Nitrogen Sensor



CO₂ & Temperature Sensor



Ambient Temperature Humidity Sensor



LN₂ Probe



Digital Temperature Probe



CO₂ & Temperature Probe

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