

*Enterprise-wide visibility for multi-site pharma and biotech facilities.*

For Pharma and Biotech, real-time monitoring of temperatures, humidity and differential pressure of cleanrooms and stability chambers for formulation, production, and storage is essential to ensure compliance and product safety, while preventing product loss. Whether the need is for formulation, production, or warehoused storage, CenTrak's *smarter* wireless environmental monitoring solution enables these facilities to maintain the required critical parameters to ensure the proper storage of raw materials and finished products while automating data collection and ensuring regulatory compliance.

## Why Automate?

Manually recording the critical measured parameters of pharmaceutical and biotech facilities can lead to inconsistent data collection, unsafe storage, and product loss. Automated environmental monitoring systems are easy to use and are configurable, allowing the user to automatically monitor and document a range of information such as temperature, humidity, CO<sub>2</sub>, differential pressure, particle counting, and more. At the application-level users can view entire facilities and every monitored point throughout the production process making it easy to identify problematic areas and retrieve data. Users may also receive alarm notifications via phone, email, and text in the event of an excursion.

CenTrak's temperature and environmental monitoring system can generate a variety of useful reports and graphs to easily retrieve and review data. Customizable options allow the end user to set the monitored parameter ranges 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 parameters is critical to safeguarding and protecting product, while also preventing product loss. A CenTrak environmental monitoring system provides a solution to ensure that all critical parameters such as temperature, humidity, pressure, and more are being properly maintained at all times while ensuring regulatory compliance.

- NIST certified sensors with full system IQ/OQ/ PQ validation documentation
- 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 differential pressure limits and temperature and humidity limits are exceeded.



### Cleanrooms

- Differential pressure
- Temperature and humidity
- Particle counting



### Stability Chambers

- Temperature and humidity
- CO<sub>2</sub>



### Warehouse/finished product storage

- Ambient temperature
- Ambient humidity



### Regulatory compliance

- Full IQ/OQ/PQ with system validation documentation
- NIST calibrations with simple probe exchange for recertification

## Product Portfolio

### Environmental / Temperature Sensors



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