

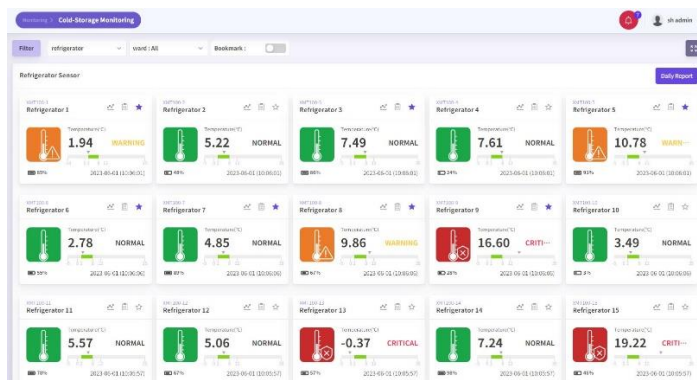
## Advanced Temperature Monitoring System powered by IndoorPlus+ SmartCare

### Challenges

The absence of a system to monitor freezer and refrigerator conditions in hospitals or other healthcare facilities can result in medication spoilage, compliance challenges, compromised patient safety, reactive equipment maintenance, inefficient resource utilization, and a lack of data-driven insights. Implementing a monitoring system can help hospitals mitigate these pains and ensure the integrity of critical supplies while enhancing patient safety and operational effectiveness.

### Solution

PEOPLE AND TECHNOLOGY (PnT) solution for monitoring the temperature and operation conditions of freezers and refrigerators in hospitals involves implementing a comprehensive system that utilizes sensors and data collection devices. These devices are placed in the freezers and refrigerators to continuously monitor and record temperature and operational parameters. The collected data is then transmitted to a centralized monitoring system or software application, where it can be analyzed and acted upon.

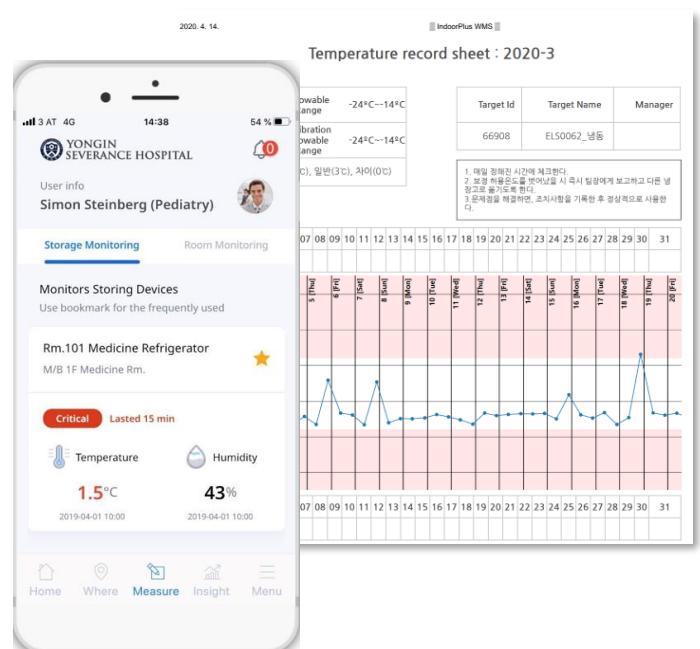


### Benefits

**Cost Savings:** Early detection of temperature deviations or equipment malfunctions can prevent spoilage of expensive medications and supplies, saving hospitals from significant financial losses.

**Workflow Efficiency:** By automating temperature monitoring and data collection, the system reduces the need for manual temperature checks, freeing up staff time for other critical tasks.

**Compliance with Regulatory Standards:** Hospitals must adhere to strict regulatory requirements regarding the storage of temperature-sensitive medications and supplies. A monitoring system helps hospitals maintain compliance and provides documentation for audits and inspections.



**Enhanced Patient Safety:** Accurate temperature monitoring ensures that medications and vaccines stored in freezers and refrigerators maintain their efficacy and safety, reducing the risk of compromised patient care.

**Proactive Maintenance:** Monitoring operational parameters of freezers and refrigerators allows hospitals to identify potential equipment failures or maintenance needs in advance, preventing costly breakdowns and minimizing downtime.

**Data Analysis and Reporting:** The collected data can be analyzed to identify patterns, trends, and potential areas for improvement in storage practices, energy efficiency, or equipment performance.

## Easy and fast implementation

Our solution involves the installation of cost-effective BLE sensor tags or probes in refrigerators or freezers, providing efficient monitoring of temperature and operational conditions. Leveraging existing communication infrastructure, or employing light BLE data collectors as needed, we gather real-time sensor data. This data is transmitted to the IndoorPlus+ SmartCare Back-end, where it undergoes continuous monitoring based on specific usage, content, and operating ranges. In the event of any deviations from the desired conditions, our system promptly generates and dispatches real-time alerts, enabling staff to swiftly respond, take necessary corrective actions, and log them for documentation purposes.



## Digital transformation journey

The Advanced Temperature Monitoring System is just one component of our comprehensive IndoorPlus+ SmartCare solutions. Designed to cater to the diverse needs of hospitals, this range offers a wide array of applications for multiple stakeholders.

Our solutions encompass real-time asset tracking, staff and patient safety monitoring, contact tracing, navigation solutions, and workflow optimization. Thanks to our unified platform that seamlessly integrates these applications, allowing for the

effortless utilization of data and insights, hospitals take a significant stride towards digital transformation, optimizing operations, enhancing workflow efficiency, improving the daily work life of staff, and ultimately elevating the overall patient experience.

## Expected results

- Peace of Mind for your staff
- Improved efficiency and resource utilization
- Enhanced safety for medications and supplies
- Regulatory compliance assurance
- Streamlined workflow and time savings
- Proactive equipment maintenance
- Valuable data insights for decision-making

By implementing a robust monitoring system, hospitals can ensure the proper functioning of freezers and refrigerators, maintain optimal storage conditions for critical supplies, and improve overall patient safety and operational efficiency.

## Contacts

### People and Technology

2F, Youngchang Building,  
27 Samsung-ro 95-gil, Samsung-dong,  
Gangnam-gu,  
Seoul 06159 – South Korea  
[sales@pntbiz.com](mailto:sales@pntbiz.com)

### People and Technology AG

Olgastrasse 10  
8001 Zürich – Switzerland  
[sales@pntbiz.eu.com](mailto:sales@pntbiz.eu.com)  
[www.pntbiz.com](http://www.pntbiz.com)

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