



Smart Environment Monitoring for Cold Chain Integrity

Precision-controlled temperature and humidity management to protect product quality, reduce losses, and ensure compliance across every mile.

Safeguarding Every Link in the Cold Chain



In temperature-sensitive industries, environmental stability defines product quality.



Even a small deviation can spoil vaccines, food, or pharmaceuticals, leading to costly losses and compliance risks.



Research shows that over **25%** of cold chain losses occur due to poor temperature visibility and delayed intervention.



To stay efficient and audit-ready, operators need real-time monitoring, automated alerts, and complete traceability across storage and transit.

The Everyday Challenges



The Answer: Smart Environment Monitoring, Seamlessly Delivered



Centelon Robotics' **RHT Unit (Relative Humidity & Temperature Monitoring)** delivers real-time accuracy and automated alerts for precise temperature and humidity control.

Compact, connected, and reliable - it ensures every product stays within safe limits, whether in storage or transit.

What our RHT Unit Can Do for You

Wide Temperature & Humidity Range

Measure from **-40 °C to +125 °C** and **0-100% RH**, covering frozen, chilled, and ambient storage environments with exceptional stability.



High Accuracy

Precision up to **±0.2 °C** and **±2% RH** ensures reliable data that meets global cold-chain and food-safety standards.



Smart Connectivity & Display

4.3-inch LCD/OLED screen for instant local readings, plus remote visibility via:

- Wi-Fi for fixed sites (warehouses, cold rooms)
- GSM for mobile assets (trucks, vans, containers)



Built for Durability

Metal or PE probe options with copper sintered filter resist moisture and interference – ensuring long-term stability in extreme humidity and low-temperature environments.

USB-powered design simplifies integration into existing infrastructure.



The Outcome for You



Automated Compliance

Eliminates manual temperature logs & streamlines ISO and HACCP audit readiness.



Product Integrity

Maintains precise conditions for vaccines, seafood, dairy, and pharmaceuticals.



Instant Alerts

Detects and reports deviations in real time to prevent spoilage.



Operational Efficiency

Centralized dashboards reduce manpower and energy waste.



Visibility Across Fleet

End-to-end tracking ensures transparency from warehouse to delivery.

About Centelon Robotics

Backed by the Centelon Group, our vision is to integrate hardware precision, software logic, and intelligent responsiveness, to create solutions that align with how people live, feel, and work. From humanoid robots to IoT Platforms, Centelon Robotics transforms your world with automation, insight, and adaptive design.



About Centelon Group

Centelon is a Melbourne, VIC-based technology solutions company that has grown from two employees in 2017 to nearly 400, spread across multiple locations. We serve several large and medium enterprises as well as government departments and non-profits in their digital transformation journeys. Over the course of several years, we have built several IP assets that enable us to significantly increase impact for our customers' businesses and improve time to realisation for them.

