# SMART TEMPERATURE MONITORING SOLUTION FOR FROZEN FOOD SUPPLIERS

Overdrive brings a new era of cold chain excellence with our advanced temperature monitoring solution. Designed for frozen food suppliers, our system serves as the ultimate guardian, ensuring the safe storage of temperature-sensitive products even during unattended warehouse hours.

## The Challenge

Frozen food suppliers face a formidable challenge in maintaining consistent temperature control in all stages of the supply chain, spanning from production to delivery. Any slight variation from the recommended temperature range is not tolerated and can result in unprofitable products.

While these facilities have invested in climate-controlled wehouses, the primary issue arises at night when the staff are not present on the factory premises. The lack of real-time temperature monitoring and alert systems leaves warehouses vulnerable to abrupt temperature spikes, often caused by power outages. While backup generators are a potential solution, they do come at a higher cost.

## The Solution

Overdrive's temperature monitoring solution is the key to a more efficient cold chain operation, guaranteeing the safety and quality of frozen goods without the hassle of manual data entry. Using our platform, frozen food suppliers can remotely and continuously track temperatures in real-time, ensuring a consistent temperature as low as -20°C. We offer the flexibility to set up alerts for power outages or temperature fluctuations, providing businesses with ultimate control and peace of mind over their entire frozen food supply chain.

# How does it work?

Bluetooth temperature sensors were placed in both the central storage chiller and individual smaller chiller fridges, continuously broadcasting signals. Complementing these sensors, Bluetooth gateways were strategically positioned within a 10-meter range of the fridges. These gateways are always tuned in to these signals, quickly detecting and generating real-time temperature data. This data seamlessly integrates into our platform for in-depth analytics.
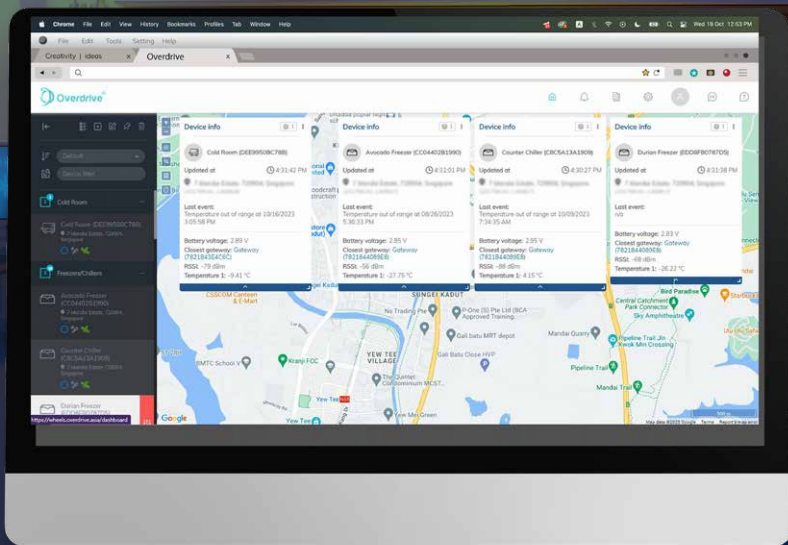


# Key Features

### Temperature Management
Effortlessly capture real-time temperature readings, eliminating the need for manual check-ups.

### Remote Access
Seamlessly access temperature data and system controls from anywhere, round the clock.

### Data Logging
Gain real-time updates on the location of your fleet and have full control over operations through a centralized platform.
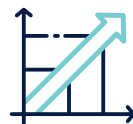
### Alerts and Notifications
Stay informed with custom temperature thresholds and receive alerts when temperatures deviate from the defined range.

### Multi-Location Monitoring
Efficiently monitor temperatures in multiple locations simultaneously, catering to businesses with multiple facilities or remote sites.

### Scalability
Easily adapt to evolving monitoring needs as your business grows and expands.

### Sensor Integration
Support a wide range of temperature sensors to monitor diverse locations and environments effectively.

### Reporting
Generate and export detailed temperature reports for compliance documentation or internal analysis.

# The Benefits

**Ensures consistent quality** of temperature-sensitive products

**Minimises product losses**, preventing financial losses and waste

**Reduces the time and effort** spent on manual temperature checks

**Higher customer satisfaction** and loyalty

**Improve operational efficiency** and productivity

**Ensures legal compliance** and eliminates potential penalties.

# The Results

Our platform redefines the way frozen food suppliers manage their temperature-sensitive goods. It empowers them to remotely monitor and track real-time temperature readings within fridges with unprecedented ease and precision. Not only does it provide real-time data but it also facilitates the configuration of specific parameters to swiftly notify staff in the event of power outages or temperature spikes beyond the ideal range. As a result, staff can take immediate action on any issues, ensuring the integrity of their inventory and the premium quality of their frozen products. With Overdrive's temperature monitoring solution, suppliers can confidently shift their focus towards business growth, delivering a new level of control and setting a higher standard for cold chain management.

# Who Are We

Overdrive is the leading real-time asset monitoring IOT company in Asia that provides end-to-end IoT solutions and automates data sensing of various types of assets within a business ecosystem, from vehicles and machinery to facilities and people – all under one roof.

# What We Do

Specialises in

- Vehicles Monitoring
- Airport Management
- Vessel Tracking
- Heavy Machinery Monitoring
- Smart Hygiene
- Environmental Monitoring
- Sustainability Solution

## Hello,
## We Are Overdrive.

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**Overdrive** ®
Now, That's Accurate.