

# Retail Cold Chain

GROCERY TEMPERATURE MONITORING, RETAIL CHAINS



25 MINUTES  
SAVED PER DAY!

Deployed at:

7-ELEVEN

TROPIC

PETROL

## Dealing with inefficiency

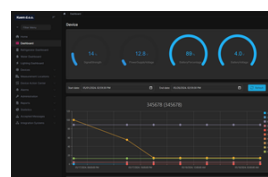
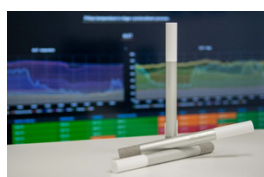
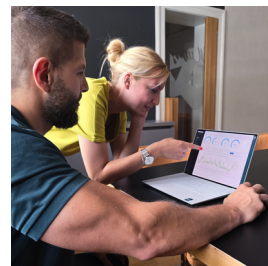
Retail chains often struggle with inefficient and error-prone manual temperature checks, leading to inconsistencies, human errors, and increased labor costs. Compliance with food safety regulations such as HACCP and FDA standards becomes challenging due to unreliable record-keeping, increasing the risk of fines and operational disruptions. Without real-time alerts, they are often unaware of temperature fluctuations, resulting in product spoilage,

financial losses, and customer dissatisfaction. Additionally, equipment failures go unnoticed until significant damage occurs, leading to higher maintenance costs and waste. The lack of data-driven insights prevents retailers from optimizing energy consumption, further increasing operational expenses.



## Turnkey solution

When IoT, LPWAN based temperature monitoring solutions are deployed, retail chains benefit from real-time data tracking, automated alerts, and seamless compliance with food safety regulations, reducing human error and labor costs. Continuous monitoring ensures that temperature-sensitive products remain within safe thresholds, preventing spoilage and waste while enhancing product quality and customer satisfaction. Automated record-keeping simplifies audits and regulatory compliance,



mitigating the risk of fines or operational disruptions. Additionally, predictive maintenance capabilities help detect equipment failures early, reducing downtime and repair costs. Energy efficiency improves as IoT systems optimize refrigeration usage, lowering operational expenses and contributing to sustainability efforts. Ultimately, IoT solutions enhance efficiency, reduce losses, and ensure a more reliable and cost-effective retail operation.

**STO10**

Temperature Only

**SMC30**

Temperature &amp; Humidity

### How it started

Manual checking

Time consuming

Location specific monitoring

### How it ended

Reallocation of staffing  
towards value-add tasks

25 minutes saved per day

Easy to scale system