

# CASE STUDY: SUPERMARKET CHAIN



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[www.ako.com](http://www.ako.com)

**AKO**

# Supermarket chain Challenge:

Asset integration project for all their establishments.

■ **20%**

The total energy cost corresponds to the central cold stores.

■ **€ 3,000**

Average annual cost of maintenance interventions.

## ■ **PROBLEM**

Not having access to global information on the assets of all its establishments was a **PROBLEM** in terms of:

- Product losses not covered by insurance.
- High energy consumption due to inadequate work points or bad practices and equipment deficiencies.
- Costly maintenance actions.
- Avoidable expenses in quality reports and audits.



Average annual cost of electricity consumption:  
**€ 4,300,000**



Annual cost of product losses not covered:  
**€ 1,000**



# Supermarket chain

## Solution - Result:

At AKO we proposed an efficient system for the logging & monitoring of temperature and moisture that guarantees the correct conservation of refrigerated products.



### ■ SOLUTION

**We carried out proofs of concept with AKODATA + AKONET.Cloud in 30 of its establishments.**

The temperature & moisture logger with NB-IoT connectivity. 100% secure, totally wireless (24 hours / 7 days a week) **AKODATA** solution that enables automated monitoring of the status of frozen and refrigerated foods, with access to information through our monitoring platform **AKONET.Cloud**.



Alarm management that allows the reduction of maintenance costs and guarantees food safety.



Reliability of the registration and monitoring system.

### ■ RESULTS

- Easy integration into the customer's information system.
- Automation of data logging and reporting.
- Reduction of product wastage.



**Energy saving** in refrigeration equipment and improvement of customer comfort.



**Increased reliability** in reports and audits.



**Increase in sales** thanks to product quality.



**Improve the image** of the brand.



**Savings on** maintenance costs.

# Supermarket chain

## Benefits of the solution

Our solution monitors and controls the cold chain to reduce food safety risks, product wastage and reduce operating costs derived from inappropriate storage or transportation climate conditions.

## AKODATA NB-IoT

Temperature and relative moisture logger with NB-IoT connectivity Sensor, monitor and wireless temperature and moisture recorder, solution for monitoring the maintenance of the cold chain, avoiding food safety risks, as well as wastage and loss of stored products, and control the proper functioning of the refrigeration installations.



The connection with **AKONET.Cloud** allows you to monitor temperature and moisture conditions, thus knowing at all times the status of the installation and the preserved product. It also improves the quality and life of the stored product, setting up reports and receiving alarm alerts in case of any type of unforeseen event.





# Supermarket chain

## Benefits of the solution



Automatic and continuous temperature logging.



Moisture logging



**Alarms** in real time via e-mail and phone call. 24/7 Alarm System in case of exceeding the pre-established limits.



**Reports** weekly and / or monthly, suitable for internal audits or quality certifications.



**Reports** on demand to document incidents.



Indicators, reports and graphs oriented to **maintenance and quality with impact on the business.**



**Specific indicators** (kinetic mean temperature).



Direct device connectivity to the cloud that **does not interfere with the client's infrastructure and IT security policies.**



**Temperature and moisture monitoring Solution** for assets distributed in **multiple locations.**



Very easy to install and activate with **very fast deployments. No wiring.**



Scalable to thousands of devices.



Secure and unified access to **key information to integrate into operations.**



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