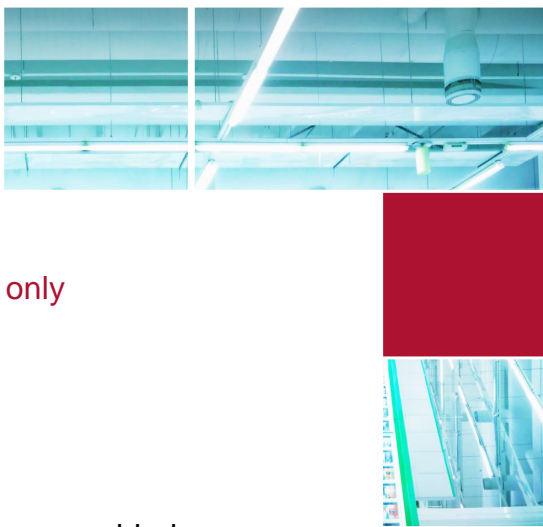# CASE STUDY

Supermarket group
Commercial Refrigeration
Food Retail

Supermarket group
Problem to solve

27,000 man hours are used to manually log the temperatures of refrigerated display cases and cold room stores. The information is only useful in the event of an inspection, but cannot be smartly managed for decision-making purposes.

■ NEEDS

- Automate processes:
  - Time saving
  - No human resources
  - 24/7/365

- Quality
  - Automatic reports
  - APPCC alarms

- Operation and maintenance
  - Global vision
  - Intelligent alarm management
  - Anticipation
  - Scalability

- Branding
  - Promote internal and external branding

■ GOAL

- Reliability of the communications and the readings provided.

- Implementation of the solution in 62 shops in 2020.

RESULTS

Hours Released Value

810
K

Massive actuation to adjust set points

AKO SOLUTION

AKONET.Cloud

1

INTEGRAL ENGINEERING SERVICE INCLUDED IN THE COST OF THE PROJECT

+

2

DESIGN, TRAINING, PEM, EVALUATION, IMPROVEMENT. CONTINUE, DIRECT CONTACT ....

3

Supermarket group
Solution:

At **AKO** we propose a solution to log the temperature and moisture of the installations remotely and continuously 24 h, 365 days a year, and monitor this data intelligently to be able to act preventively, to optimize maintenance costs and react quickly when faced with any incident, and to increase business profitability, productivity and cost reduction

■ SOLUTION

AKODATA NB-IoT

- Temperature and moisture logger
- 100% cable free.
- Multiple solutions.
- Antenna and probe (internal / external).
- Configurable data logging frequency.
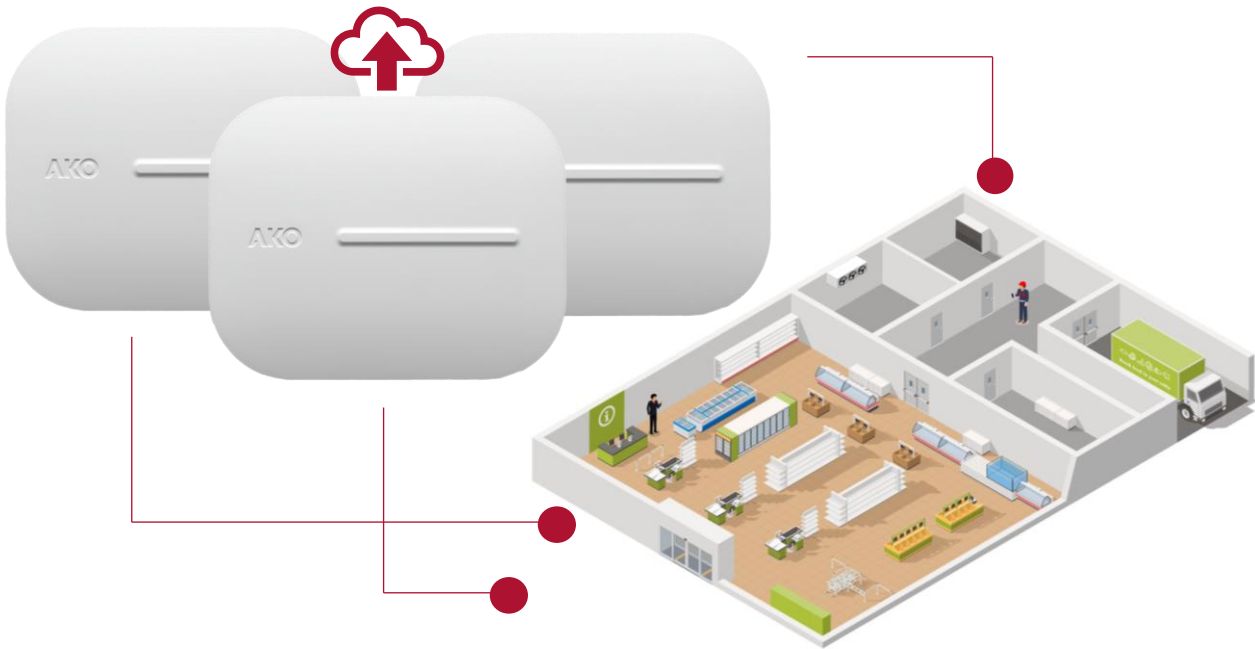- Built-in battery (autonomy 3 years).

AKONET.Cloud

- Integrated NB-IoT connectivity.
- Monitoring with AKONET.Cloud or AKONET.App.
- 24/7 alarm system (email / push notifications).
- Multi-device access (PC / smartphone / tablet).

*Not subjected to metrological control

■ RESULTS

Deploy an AKODATA system connected to AKONET.Cloud for the supermarket chain

AKO

Supermarket group

TEMPERATURE / MOISTURE LOGGING SOLUTIONS AND DATA MONITORING
FOR ITS PREVENTIVE AND INTELLIGENT MANAGEMENT

Monitoring the temperature and moisture of an installation is relevant in a number of fields; business profitability and productivity, cost reduction, preventive maintenance, immediate reactivity in case of emergencies, intelligent management of the data.
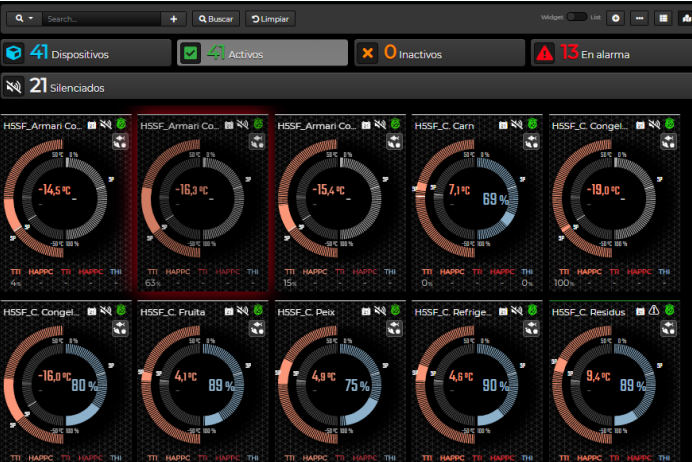Our mission is to cover all these needs in the same solution.

BENEFITS

1 - Multisite display
- Access group visualization according to supermarket code, access equipment
- View group in detail
- Group according to supermarket
- Group according to storage temperature
- Label according to type of service

2 - View Akodata devices by list and map
See the equipment by full name, location (map), the group it belongs to and active alarms

OCTOBER 2020

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Supermarket group

TEMPERATURE / MOISTURE LOGGING SOLUTIONS AND DATA MONITORING
FOR ITS PREVENTIVE AND INTELLIGENT MANAGEMENT

■ BENEFITS

3- Multi-side visualization (by store / by type of services / by storage temperature)

• Access the group according to service temperature

4 - Apply configurations en masse (change of setpoint and / or alarm levels)

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**TEMPERATURE / MOISTURE LOGGING SOLUTIONS AND DATA MONITORING
FOR ITS PREVENTIVE AND INTELLIGENT MANAGEMENT**

■ BENEFITS

5- Storage temperature control
- Access the service to view the storage temperature and apply corrective actions, if applicable.
- Quickly view the maximum and minimum service intervals.
- Analysis of the temperature continuum to detect anomalies and Time in Temperature Index.

Services where refrigeration is deficient (excess energy consumption)
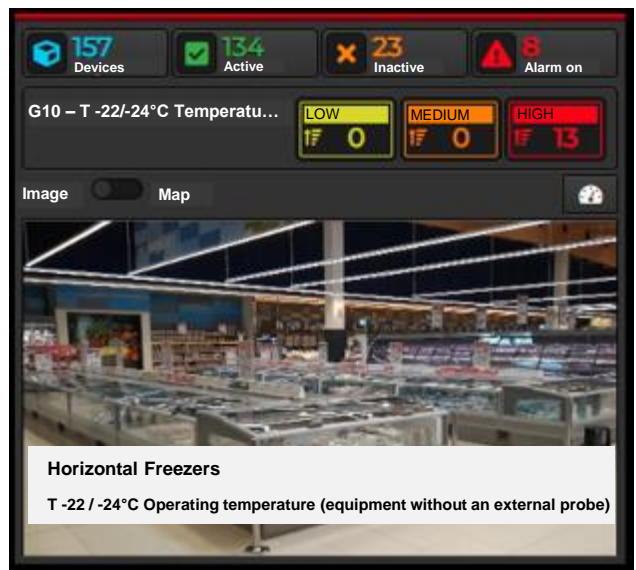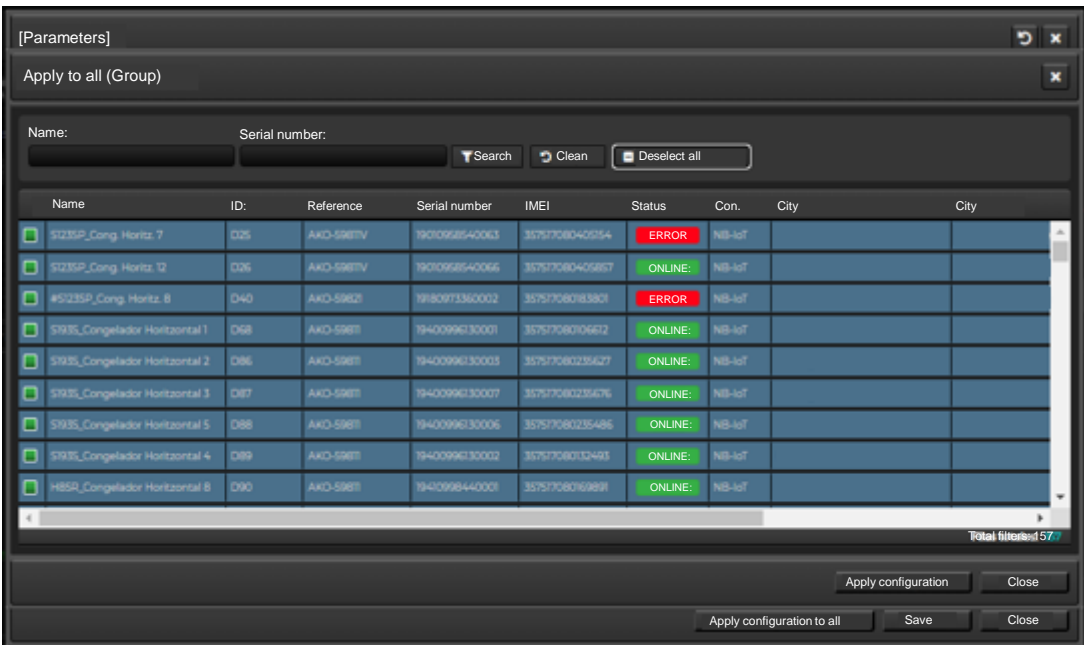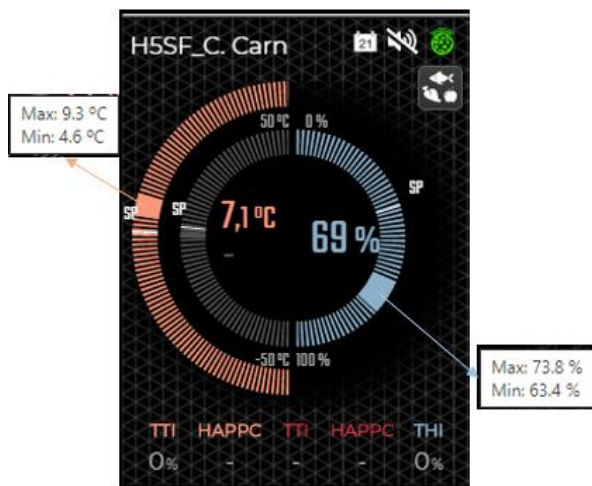
Desired range

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**TEMPERATURE / MOISTURE LOGGING SOLUTIONS AND DATA MONITORING
FOR ITS PREVENTIVE AND INTELLIGENT MANAGEMENT**

■ BENEFITS

6 - Generation of immediate and periodic reports

Management report

Instant

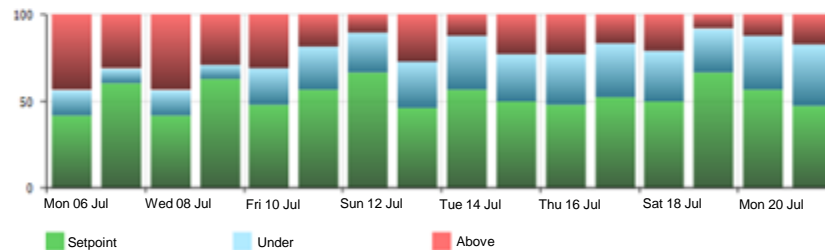|	
Family	AKODATA
Report type	[AKODATA] HACCP report
Goal	
Report for	By group
	By label
	By device
Language	(ES) Español
	Programmed
From	20/07/2020
To	21/07/2020

[AKODATA] Advanced temperature report

Company
Report Date   2020-07-21 13:06:26 GMT+00
Report Interval   2020-07-06 / 202C-07-21

Device information

Name	S173V_Semimural Carn
Description	Temperature and moisture monitor, 3m external NTC probe, IP68. -40T50. batery 6.5 Ah, NB-IoT Band 20
Address	
Groups	
Tags	#Semimural carn
Reference	AKO-59820
Serial number	19451002640012
ID	D139
GMT	GMT+02:00

Time and temperature index (External temperature)

Time at Set point (External temperature)

| Setpoint | Under | Above |
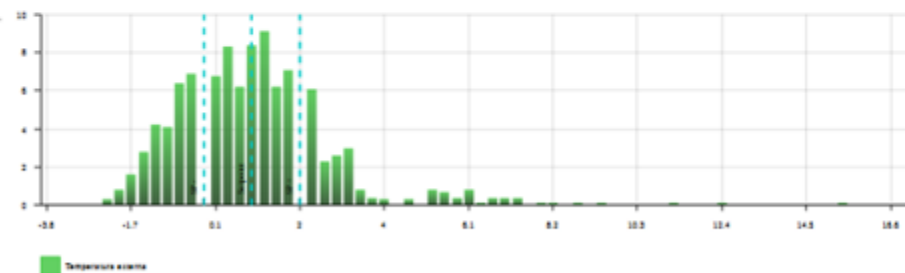
Parameter	Value
Setpoint	1ºC
Hysteresis	1ºC

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TEMPERATURE / MOISTURE LOGGING SOLUTIONS AND DATA MONITORING
FOR ITS PREVENTIVE AND INTELLIGENT MANAGEMENT

■ BENEFITS

7 - User creation and assignment of supermarkets for each installer by geographical area

	Email	Nombre	Apellidos	Activo	Adminis...	Rol	Última conexión	Creado en
				✓	✓		21-07-2020 14:09	21-01-2019 12:41
✏				✓	✗	Permisos instal.lador	19-11-2019 16:38	22-01-2019 09:44
✏				✗	✗	Permisos instal.lador	04-06-2020 13:01	22-01-2019 20:48
✏				✓	✓	Administrador del Sistema	21-07-2020 10:28	22-01-2019 20:52
✏				✓	✓	Administrador del Sistema	17-07-2020 16:50	06-08-2019 16:11
✏				✓	✗	Permisos instal.lador	19-07-2020 19:16	04-11-2019 16:22

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CASE STUDY

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