

CASE STUDY: INTERNATIONAL HYPERMARKET



OCTOBER 2020

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AKO

International hypermarket

Challenge:

To create a continuous gas leak monitoring system which provides reliable, fast and useful information that helps reduce these leaks, find them more quickly, identify the areas with the highest ratio of leaks and that provides data to carry out preventive maintenance (anticipate serious leaks).



■ INSTALLATION ■ PROBLEM

Hypermarket

- Monitored Services:
 - 12 Cold room stores and Workshops.
 - 24 Display Cabinets and Islands.
 - 1 Machine Room.
 - 37 Transmitters Installed.
- Noteworthy leaks detected:
 - 4 serious (3 already repaired), of some seriousness (they totalled 85.2 Kgs / Year), LN9 remains to be repaired.
 - 4 low severity (CP7, CP11, CP16, CP12).

- Reduce the Leakage Ratio and CO2 Emissions of the Centre.
- Improve Energy Efficiency by maintaining a correct gas level.
- Incorporate a Continuous Monitoring System, Alerts and Data Intelligence on Refrigerant Gas Leaks.



Helpful, reliable and timely gas leak information



Savings in operating and maintenance costs



Protection of people, environmental and regulatory compliance



Constant monitoring of gas leaks through a reliable alert system 24/7.

International hypermarket Solution - Result:

At **AKO** we propose a solution to monitor gas leaks from the installation early, increasing business profitability and productivity, reducing costs, personal safety and caring for the environment.

SOLUTION

The **AKOGAS NDIR** infra-red technology gas monitors are especially designed for detecting ambient gases, at concentrations as low as 1 PPM, and thus help to drastically reduce the operating costs of a facility. They can be installed within any of the installation's zones.

Monitored by **AKONET.Cloud**, the environment gas concentration log and the existing gas leak can be consulted at any time, together with some highly relevant indicators to know **WHEN, WHERE AND HOW MUCH** gas is leaking, facilitating early repair and efficient maintenance.



Specific sensors for each type of gas, which avoids false alarms with great precision and a deviation of less than 5% in the detection of leaks.

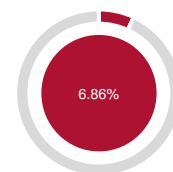


Possibility of connection to **AKONET.Cloud** via Modbus or direct connectivity **NB-IoT**.

RESULTS

Incorporating a continuous monitoring and logging system with continuous gas leak alerts provided the following results:

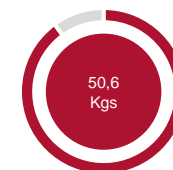
LEAK RATIO



AVERAGE CENTER LEAK (PPM)



GAS SAVINGS / YEAR



RELIABILITY (NO FALSE ALARMS)



International hypermarket Refrigerant Gas Monitoring and Maintenance Solutions

Monitoring refrigerant gas in an installation is relevant in a wide range of aspects; business profitability and productivity, cost reduction, personal safety and care for the environment. Our mission is to cover all these needs in the same solution.

AKOGAS NDIR + Monitoring

PERSONAL SAFETY, REGULATORY COMPLIANCE AND EARLY LEAK DETECTION

Infra-red gas leak monitor. Specific, and extremely selective, sensors for each type of gas, which avoids false alarms due to other gases, solvents or cleaning products with great precision and a deviation of less than 5% in the detection of gas leaks, in addition to guaranteeing safety of all the people in the facility and comply with the requirements of current regulations.

The infra-red technology gas monitors are especially designed for detecting ambient gases, at concentrations as low as 1 PPM, and thus help you to drastically reduce the operating costs of your facility. They can be installed within any of the facility's zones.



International hypermarket Refrigerant Gas Monitoring and Maintenance Solutions

A complete solution for timely gas leak detection and regulatory compliance.



BENEFITS



It provides useful information for the repair of refrigerant gas leaks in an incipient state, avoiding high direct costs (gas recharging) and indirect costs (higher electricity consumption, loss of product).



It avoids false alarms, thus providing a reliable system that does not cause unnecessary inconvenience or maintenance costs.



It concentrates the information from the transmitters into a monitoring system that provides leak logging and helps to locate the leak efficiently.



It reports the specific area where the leak is taking place, greatly reducing the time needed to locate it.



Useful information to perform preventive maintenance and reduce maintenance costs before a serious problem occurs.



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