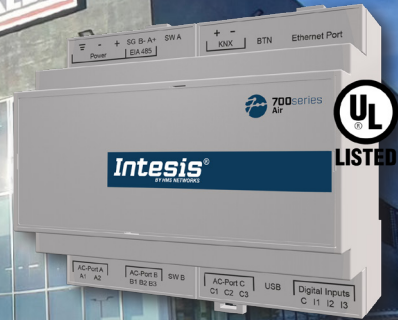


**Solution:** Intesis 700series Air  
**Country:** Spain  
**Company:** IKNX Ingenieria, S.L.  
**Summary:** Integration of HVAC systems into KNX using the Intesis 700series Air gateways at ALDI supermarkets in Sevilla, Valencia, and Burgos (Spain). This project received the 2024 KNX “Special Award”.



### Benefits

of using the Intesis 700series Air:

- Reliable communication between the BMS and the HVAC system
- Gateways quick configuration and shorter commissioning time

### The project

This project involved the design, installation, programming, and commissioning of a KNX supervision and control system for two newly constructed logistics centers, along with the expansion and renovation of an existing logistics facility for ALDI. These centers support the storage and distribution of goods to ALDI supermarkets throughout Spain.

The logistics centers are in Sevilla, Valencia, and Burgos. One project requirement was to enable centralized monitoring and management of these three locations from ALDI’s headquarters in Barcelona.

This project won the Special Award at the “KNX Awards 2024” and was also selected as the 1st finalist in the Best KNX Project category at the 5th edition of the “KNX Spain 2024 Awards”.

### Air conditioning, exhaust and air quality control

The project was designed to meet the rigorous standards for the prestigious BREEAM certification. BREEAM promotes sustainable building practices that provide long-term cost savings, health benefits, and positive environmental impacts for all stakeholders over the building’s lifecycle.

Key elements addressed in the project included ensuring thermal comfort through advanced climate control systems and promoting efficient electricity usage to reduce CO<sub>2</sub> emissions.

# IKNX

*“We chose the Intesis AC Gateways 700 Series Air for their easy and fast configuration”*

Antonio José Molero Fernandez  
CEO

## The need

To control the entire air conditioning system of the offices in the different logistics centers built in Spain through a BMS.

## Why Intesis

The Intesis 700series Air gateways enable easy, efficient, and reliable communication of HVAC installations with Building Management Systems (BMS).

Each ALDI logistics center has dozens of AC indoor units. To integrate all these units into the BMS and enable their independent monitoring and control, only 2 or 3 Intesis 700series Air gateways were installed per center, providing a cost-effective and quick-to-implement solution.

Thanks to the Intesis configuration and diagnostic tool MAPS the setup and commissioning process was straightforward and quick, allowing for robust and reliable communication between the HVAC equipment and the BMS.

The end user's maintenance team is satisfied with the results and appreciates the feeling of control over the HVAC system.



## About INKX Ingeniería, S.L.

Founded in 2020 and based in Spain, INKX brings over 14 years of expertise in installations and project management specializing in the KNX standard.

The company is committed to delivering energy-efficient solutions across a wide range of industrial and residential installations. Through the integration of cutting-edge engineering technologies, INKX has established itself as a benchmark in the KNX projects segment.

In addition to providing comprehensive, turn-key project solutions overseen by their team from inception to completion, INKX also operates as an official KNX Training Center.

## About Intesis 700series Air gateways

The Intesis IN700series Air Multi-indoor unit gateways family is an off-the-shelf, versatile solution that allows you during its configuration process to select one building automation protocol from four options: KNX, BACnet, Modbus or WMP (the Intesis ASCII based protocol for IP-based home automation systems). And with the IN770AIR models, you can also select the AC brand from several options.

### Some of the Key benefits of the Intesis 700 Series Air Gateways:

- **Cut the costs** of products, cabling, and labor by using one single gateway to integrate complex HVAC systems.
- **Reduce configuration and commission time** thanks to the Intesis configuration tool MAPS scan function to detects all the units connected to the VRF/VRV system and imports this information along with their control signals and outdoor unit indicators.
- **Protocol and AC brand flexibility:** Offers broad compatibility with multiple HVAC brands and protocols, ensuring smooth integration across diverse systems.
- **Energy metering:** the advanced Intesis Power Estimation Algorithm, empowers you to enhance energy savings by identifying and targeting the highest energy consumers within your building.

Experience the future of HVAC management with Intesis—where efficiency meets innovation!



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