

Country: Vilnius, Lithuania
Company: Būsto Automatika
AC Brand: Mitsubishi Electric and
Mitsubishi Heavy Industries
Protocol: KNX
Vertical: Residential



Solution
INKNXMH1001R000
INKNXMIT001I000

Integration of AC units into a KNX installation using Intesis gateways

Implementing the solution with Intesis

Dedicated Intesis KNX gateways were installed for each air-conditioning unit. Each Mitsubishi Heavy Industries indoor unit was connected to an INKNXMH1001R000 gateway, while the Mitsubishi Electric unit was integrated using an INKNXMIT001I000 gateway. These gateways translate the manufacturers' proprietary AC communication protocols into KNX, enabling all units to be integrated within the same KNX group address structure and control logic used throughout the residence.

Each gateway provides bidirectional communication between a single AC unit and the KNX system, allowing KNX commands to control ON/OFF operation, operating mode, temperature setpoint and fan speed, while returning real-time status information to KNX for monitoring and feedback.

Using Intesis gateways delivered several key benefits:

- One consistent KNX interface for HVAC, even though two different AC manufacturers were used.
- True two-way control and status feedback, improving reliability compared with one-way control methods.
- AC operation can participate in KNX scenes, schedules and room automation together with the other building systems.
- Reduced integration effort and easier commissioning, maintenance, and future servicing for the system integrator.
- A cleaner user experience, with no need to switch between separate manufacturer-specific apps or controls for normal operation.

CHALLENGE

The HVAC integration had to remain transparent to the end user regardless of the AC manufacturer.

SOLUTION

AC brand-specific Intesis KNX gateways: INKNXMH1001R000 and INKNXMIT001I000

BENEFIT

- True two-way control and status feedback.
- AC operation can participate in KNX scenes.
- Users do not need to switch between separate manufacturer-specific apps.



“Intesis offers dedicated KNX gateways for MHI and Mitsubishi Electric, allowing the same integration approach to be used for both brands. This avoided custom protocol development and reduced commissioning risk.”

BŪSTO
AUTOMATIKA

Mantas Jasiulis
KNX / Building Automation Engineer

Project overview

This private residential project, which won the Special KNX Award 2026, consists of three separate buildings: the main residence, guest house, and garage/SPA, all of them interconnected through one unified KNX automation system. KNX provides the common control layer for lighting, shading, heating/cooling, ventilation, access control and other building functions.

As part of the HVAC integration, Mitsubishi Heavy Industries and Mitsubishi Electric air-conditioning units, each using its own proprietary control interface, also had to become part of the same KNX environment. Each AC unit needed reliable bidirectional integration so that KNX could control its operation and receive its actual operating status, rather than relying on one-way or infrared-based control. The goal was to give residents one reliable and consistent system for room control, visualization, scenes and automation across all three buildings, without using separate manufacturer-specific controls.

Why Intesis was chosen

For both Mitsubishi Heavy Industries and Mitsubishi Electric HVAC systems, Intesis supplies brand-specific KNX gateways

that support a common integration methodology. This approach eliminates the need for custom protocol implementation, reduces commissioning risk, and ensures a standardized KNX interface with full bidirectional control and real-time status feedback capability.

About Būsto Automatika

Būsto Automatika is a Lithuanian system integrator specializing in smart home and building automation solutions. Its highly skilled team advises, designs, and implements integrated control systems for lighting, HVAC, security, shading, multimedia, and other building services. The company creates solutions that not only match each customer's unique needs but also maximize comfort and energy efficiency.

About Intesis

Intesis, the Building Automation division of HMS Networks, is a globally recognized provider of HVAC gateways and protocol converter gateways. With over two decades of experience, Intesis enables robust and straightforward interoperability between systems, helping system integrators connect devices across major industry protocols.

For more information, see www.hms-networks.com/intesis

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