

## Hitachi VRF systems to KNX Application

Item number: IN770AIR00MO000

This gateway allows the integration of Hitachi VRF and air-to-water systems into KNX TP control systems. A single gateway can integrate up to 64 indoor units.



*Hitachi to KNX - up to 64 indoor units*

### Features and benefits

- ✓ **Integration of VRF, Yutaki, and Yutampo models on the same bus**  
Simplify system design and reduce commissioning time and costs by eliminating the need for model-specific gateways.
- ✓ **Connection to the outdoor unit**  
Avoid complex and expensive wiring: one gateway connected to a single outdoor unit enables individualized control of its indoor units.
- ✓ **Dedicated signals for error and maintenance monitoring**  
Quickly realize what's wrong and anticipate problems to prevent downtime and extend the HVAC system's lifespan.
- ✓ **Configuration using Intesis MAPS**  
Reduce configuration time by importing and reusing preset templates.
- ✓ **KNX thermostat**  
Read the room temperature from either the indoor unit or a KNX thermostat.
- ✓ **HVAC bus scanning function**  
Accelerate commissioning and avoid manual mapping errors by automatically discovering and importing all units, including their variables.
- ✓ **Individual indoor unit energy consumption signals**  
Reduce energy costs through HVAC system performance analysis and energy hotspots detection.
- ✓ **Outdoor unit monitoring**  
Extend your project's capabilities by incorporating outdoor unit signals.
- ✓ **CSNET Manager and PSC-6RAD adapter supported**  
Provide maximum flexibility for your project.
- ✓ **Designed in collaboration with Hitachi and certified by UL**  
Ensure reliability in professional building automation environments.



## General

|                              |                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Capacity                     | M: Up to 64 indoor units                                                                                                                                                                                                                                                                                                                                             |
| Net Width (mm)               | 106                                                                                                                                                                                                                                                                                                                                                                  |
| Net Height (mm)              | 90                                                                                                                                                                                                                                                                                                                                                                   |
| Net Depth (mm)               | 58                                                                                                                                                                                                                                                                                                                                                                   |
| Net Weight (g)               | 194                                                                                                                                                                                                                                                                                                                                                                  |
| Packed Width (mm)            | 125                                                                                                                                                                                                                                                                                                                                                                  |
| Packed Height (mm)           | 85                                                                                                                                                                                                                                                                                                                                                                   |
| Packed Depth (mm)            | 140                                                                                                                                                                                                                                                                                                                                                                  |
| Packed Weight (g)            | 356                                                                                                                                                                                                                                                                                                                                                                  |
| Operating Temperature °C Min | 0°                                                                                                                                                                                                                                                                                                                                                                   |
| Operating Temperature °C Max | 60°                                                                                                                                                                                                                                                                                                                                                                  |
| Storage Temperature °C Min   | -30                                                                                                                                                                                                                                                                                                                                                                  |
| Storage Temperature °C Max   | 60                                                                                                                                                                                                                                                                                                                                                                   |
| Power Consumption (W)        | 3                                                                                                                                                                                                                                                                                                                                                                    |
| Input Voltage (V)            | For DC: 12 .. 36 VDC $\pm 10\%$ , Max: 250 mA For AC: 24 VAC $\pm 10\%$ , 50-60 Hz, Max: 127 mA Recommended voltage: 24 VDC, Max: 127 mA                                                                                                                                                                                                                             |
| Power Connector              | 3-pole                                                                                                                                                                                                                                                                                                                                                               |
| Configuration                | Intesis MAPS                                                                                                                                                                                                                                                                                                                                                         |
| Installation Conditions      | This gateway is designed to be mounted inside an enclosure. If the unit is mounted outside an enclosure, precautions should always be taken to prevent electrostatic discharge to the unit. When working inside an enclosure (e.g., making adjustments, setting switches, etc.), typical anti-static precautions should always be followed before touching the unit. |
| AC Model Compatibility       | Compatible with Hitachi VRF, Yutaki Series S / SCombi (lite) / S80 / M (all released from 2016), Yutampo, AIRH2O Series 600 / 800, and YCC systems.                                                                                                                                                                                                                  |



## General

|                                   |                                               |
|-----------------------------------|-----------------------------------------------|
| <b>Content of Delivery</b>        | Intesis gateway and installation manual.      |
| <b>Not Included (in delivery)</b> | Power supply not included.                    |
| <b>Mounting</b>                   | DIN rail mount (bracket included), Wall mount |
| <b>Housing Materials</b>          | Plastic                                       |
| <b>Warranty (years)</b>           | 3 years                                       |
| <b>Packaging Material</b>         | Cardboard                                     |

## Identification and Status

|                          |                         |
|--------------------------|-------------------------|
| <b>Product ID</b>        | IN770AIR00MO000_KNX_HIT |
| <b>Country of Origin</b> | Spain                   |
| <b>HS Code</b>           | 8517620000              |
| <b>Dual Usage</b>        | No                      |

## Physical Features

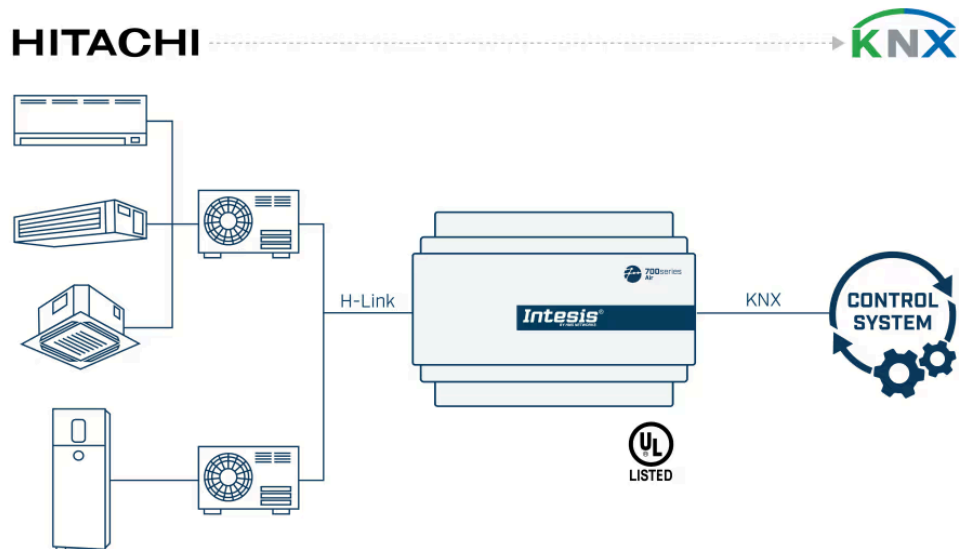
|                                    |                                                                                                    |
|------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Connectors / Input / Output</b> | Power supply, EIA-485, KNX, Ethernet, HVAC port, Binary inputs (dry contact), Console port USB.    |
| <b>LED Indicators</b>              | Gateway and communication status.                                                                  |
| <b>Push Buttons</b>                | Factory reset. I-Am message (for BACnet only). Normal mode/programming mode switch (for KNX only). |
| <b>DIP &amp; Rotary Switches</b>   | EIA-485 serial port configuration.                                                                 |
| <b>Contains Battery</b>            | No                                                                                                 |

## Certifications and Standards

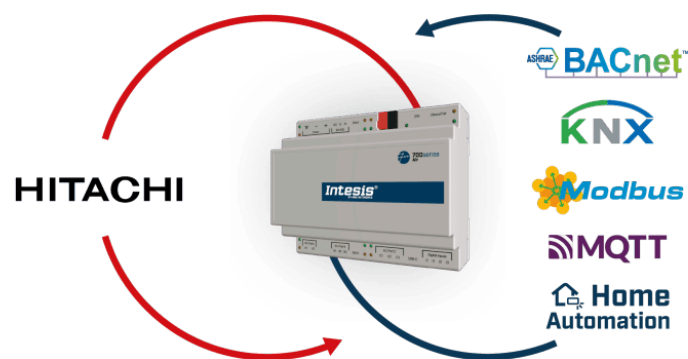
|                               |                                     |
|-------------------------------|-------------------------------------|
| <b>Product Certifications</b> | CE, CB, UKPSTI, UL                  |
| <b>WEEE Category</b>          | IT and telecommunications equipment |



## Use Case



Integration example.



Use Intesis MAPS to change the protocol: BACnet, Modbus, KNX, MQTT, or Home Automation