

## Panasonic ECOi, PACi, ECOg / PAC, VRF systems to Modbus TCP/RTU Application

Item number: IN770AIRXXSO000

The Panasonic application has been specially designed to allow bidirectional control and monitoring of Panasonic ECOi, PACi, ECOg / PAC, VRF systems from a BMS, SCADA, PLC, or any other device working as a Modbus client. The solution allows the integration of up to 4 indoor units from a single interface.



*Panasonic to Modbus TCP/RTU - Up to 4 Indoor Units*

### Features and benefits

- ✓ **Reduce hardware costs and improve system scalability**  
The gateway is a Modbus server and can manage both Modbus TCP and Modbus RTU simultaneously.
- ✓ **Automatic identification**  
A scan function is available for automatic identification of the units present in the VRF system.
- ✓ **Individual indoor unit energy consumption signals**  
Energy consumption signals from each indoor unit are available, so they can be checked individually.
- ✓ **Commissioning-friendly approach with Intesis MAPS**  
Templates can be imported and reused as often as needed, significantly reducing commissioning time.
- ✓ **Direct access to the outdoor unit**  
Connection is simple, as the interface connects directly to the outdoor unit's communication bus.
- ✓ **Outdoor unit signals**  
Signals assigned to the outdoor unit are available to be used in the integration.
- ✓ **Multiple TCP client support**  
The interface supports up to 6 TCP clients (incoming sockets).
- ✓ **Configuration tool and interface automatic updates**  
Both the Intesis MAPS configuration tool and the interface's firmware can receive automatic updates.

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## General

|                              |                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Capacity                     | XXS: Up to 4 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. |
| Content of Delivery          | Intesis gateway and installation manual.                                                                                                                                                                                                                                                                                                                             |

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## General

|                            |                                               |
|----------------------------|-----------------------------------------------|
| Not Included (in delivery) | Power supply not included.                    |
| Mounting                   | DIN rail mount (bracket included), Wall mount |
| Housing Materials          | Plastic                                       |
| Packaging Material         | Cardboard                                     |
| Warranty (years)           | 3 years                                       |

## Identification and Status

|                   |                         |
|-------------------|-------------------------|
| Product ID        | IN770AIRXXSO000_MBS_PAN |
| Country of Origin | Spain                   |
| HS Code           | 8517620000              |
| Dual Usage        | No                      |

## Physical Features

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

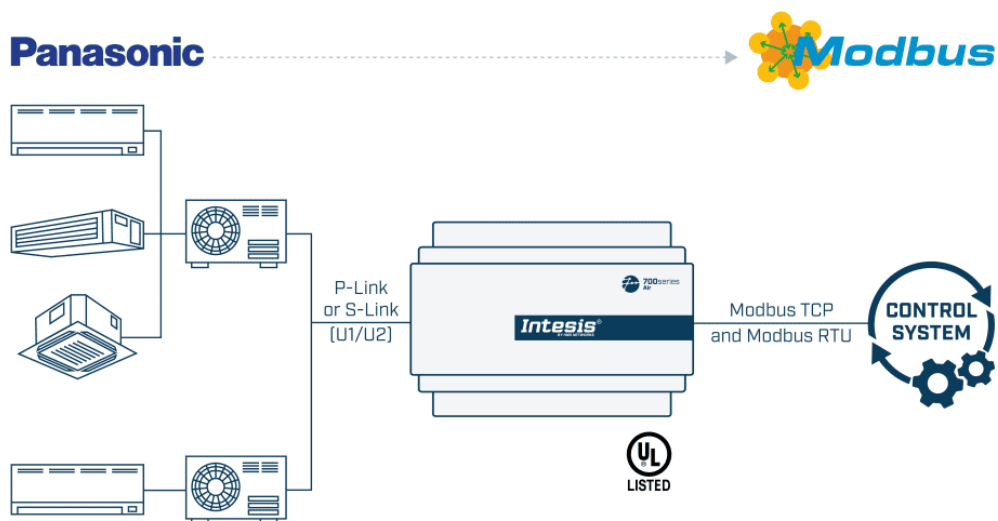
## Certifications and Standards

|                        |                                     |
|------------------------|-------------------------------------|
| Product Certifications | CE, CB, UKPSTI, UL                  |
| WEEE Category          | IT and telecommunications equipment |

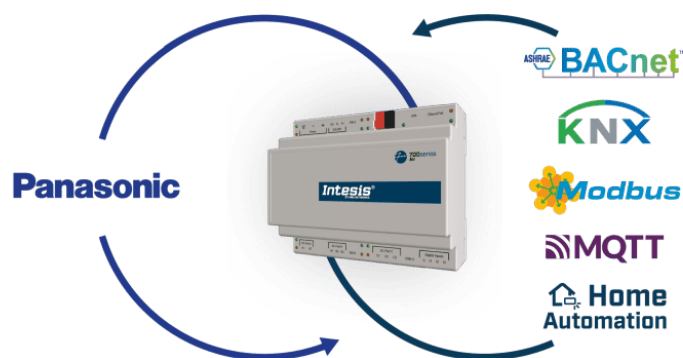
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## Use Case



Integration example.



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