

## Mitsubishi Electric Ecodan Air-to-Water heat pumps to Modbus RTU

Item number: IN485MIT001A000

This gateway allows full bidirectional communication between Mitsubishi Electric Air-to-Water heat pumps and Modbus RTU networks.



*Mitsubishi Electric Air-to-Water to Modbus RTU - 1 AW unit*

### Features and benefits

- ✓ **Easy installation and commissioning**  
The gateway gets its power directly from the AW unit and allows a simple Modbus configuration using DIP Switches.
- ✓ **Energy efficiency and comfort optimization**  
Weather dependent ambient temperature setup.
- ✓ **Local and remote control at the same time**  
This is an additional user interface in the Ecodan installation. It does not replace the main user interface, which is still required for operation.
- ✓ **Detect outliers and anomalies in the AW system's performance**  
It provides error codes and detailed description, enabling the Modbus system to execute preventive maintenance schedules.
- ✓ **Avoid compatibility issues**  
This gateway is compatible with monoblock and split systems from the Mitsubishi Electric Ecodan range.
- ✓ **Total control and monitoring from Modbus RTU**  
Through internal variables, running hours counter (for maintenance purposes), and error indication.

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| General                      |                                                                                                                                                     |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Capacity                     | 1 AW unit                                                                                                                                           |
| Net Width (mm)               | 53                                                                                                                                                  |
| Net Height (mm)              | 93                                                                                                                                                  |
| Net Depth (mm)               | 58                                                                                                                                                  |
| Net Weight (g)               | 78                                                                                                                                                  |
| Packed Width (mm)            | 135                                                                                                                                                 |
| Packed Height (mm)           | 85                                                                                                                                                  |
| Packed Depth (mm)            | 100                                                                                                                                                 |
| Packed Weight (g)            | 216                                                                                                                                                 |
| Operating Temperature °C Min | 0°                                                                                                                                                  |
| Operating Temperature °C Max | 70°                                                                                                                                                 |
| Storage Temperature °C Min   | -20                                                                                                                                                 |
| Storage Temperature °C Max   | 85                                                                                                                                                  |
| Power Consumption (W)        | 1.4                                                                                                                                                 |
| Input Voltage (V)            | From the AW unit.                                                                                                                                   |
| Power Connector              | Other                                                                                                                                               |
| Isolation Voltage (kV)       | 1500 VDC                                                                                                                                            |
| Configuration                | DIP switch                                                                                                                                          |
| Installation Conditions      | Install this gateway indoors, in a restricted access location, avoiding exposure to direct solar radiation, water, high relative humidity, or dust. |

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## General

|                        |                                                                     |
|------------------------|---------------------------------------------------------------------|
| AC Model Compatibility | Compatible with Mitsubishi Electric Ecodan air-to-water heat pumps. |
| Content of Delivery    | Intesis gateway and installation manual.                            |
| Mounting               | DIN rail mount (bracket included)                                   |
| Housing Materials      | Plastic                                                             |
| Packaging Material     | Cardboard                                                           |
| Warranty (years)       | 3 years                                                             |

## Identification and Status

|                                                                       |                         |
|-----------------------------------------------------------------------|-------------------------|
| Product ID                                                            | IN485MIT001A000_MBS_MIT |
| Country of Origin                                                     | Spain                   |
| HS Code                                                               | 8517620000              |
| Dual Usage                                                            | No                      |
| Export Control Classification Number (ECCN) (Applies only to the U.S) | EAR99                   |

## Physical Features

|                             |                        |
|-----------------------------|------------------------|
| Connectors / Input / Output | EIA-485, HVAC port.    |
| LED Indicators              | 1 x Operational status |
| DIP & Rotary Switches       | 3x DIP Switch          |
| Contains Battery            | No                     |

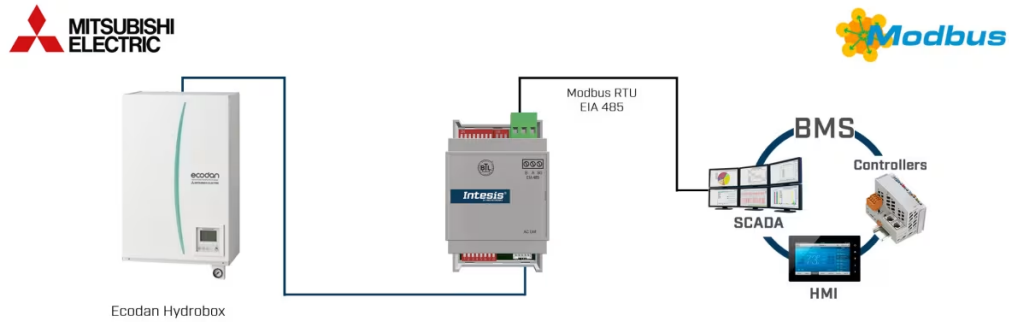
## Certifications and Standards

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

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## Use Case



Integration example.