

Daikin Altherma Air-to-Water heat pumps to Modbus RTU



Item number: IN485DAI001A000

The Daikin-Modbus gateway allows full bidirectional communication between Daikin Altherma 3 Air-to-Water heat pumps and Modbus RTU (RS-485) networks.

Daikin 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 gateway acts as an additional user interface in the Daikin Altherma 3 installation. It does not replace the Daikin 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 Daikin Altherma 3 range.
- ✓ **Total unit control and monitoring from Modbus RTU**
Through internal variables, running hours counter (for maintenance purposes), and error indication.

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General	
Net Width (mm)	53
Net Height (mm)	93
Net Depth (mm)	58
Net Weight (g)	120
Packed Width (mm)	140
Packed Height (mm)	85
Packed Depth (mm)	108
Packed Weight (g)	160
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 AC unit.
Power Connector	Other
Isolation Voltage (kV)	1500 VDC
Isolation Resistance (Ohms)	1000 MΩ
Configuration	DIP switch
Capacity	1 Air-to-Water unit.

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General

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 Altherma 3 heat pumps commercialized by Daikin.
Content of Delivery	Intesis Gateway, and Installation Manual.
Mounting	DIN rail mount (bracket included)
Housing Materials	Plastic
Warranty (years)	3 years
Packaging Material	Cardboard

Identification and Status

Product ID	IN485DAI001A000
Country of Origin	Spain
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN)	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

ETIM Classification	EC001604
CE	Yes
UKCA	Yes

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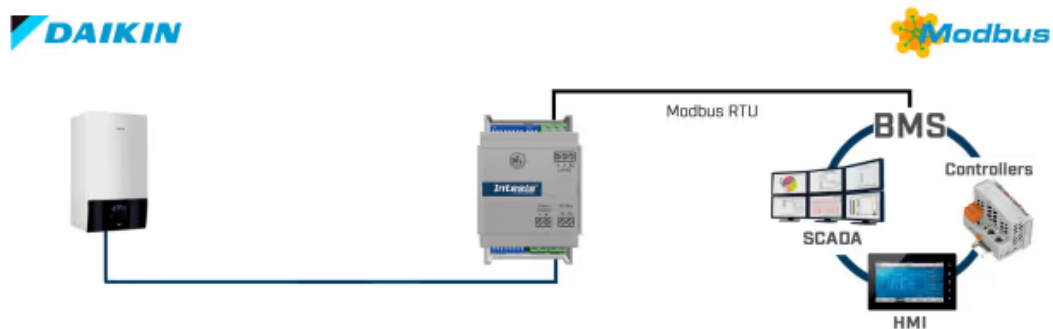


Certifications and Standards

UL	Yes
KC	No
WEEE Category	IT and telecommunications equipment



Use Case



Integration example.