# Hisense VRF systems to Modbus RTU Interface

**Item number: INMBSHIS001R000**

The Hisense-Modbus interface allows full bidirectional communication between Hisense VRF systems and Modbus RTU (RS-485) networks. The interface acts as a server device for the installation, accessing all signals from the air conditioner unit. A wired remote controller can also be part of the network.




*Hisense to Modbus - 1 indoor unit*

## Features and benefits

- **Modbus RTU (EIA-485) server device**
  The interface acts as a Modbus server device through its Modbus RTU (EIA-485 connector) port.
- **Energy savings through a window contact function**
  This function helps minimize costs, as HVAC systems are a major building energy consumer.
- **AC unit control by both the remote and Modbus RTU**
  The AC unit can be simultaneously controlled by the manufacturer's remote controller and Modbus RTU.
- **Multiple mounting options**
  Mounting options include DIN rail, wall, or, in some AC models, even inside the indoor unit.
- **Dual configuration options**
  Configuration is carried out through the interface's onboard DIP switches and the Modbus interface.
- **Total unit control and monitoring from Modbus RTU**
  Through internal variables, running hours counter (for maintenance purposes), and error indication.
- **No external power required**
  The interface is powered directly from the AC unit, so no external power supply is required.

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## General

| | |
|---|---|
| **Net Width (mm)** | 53 |
| **Net Height (mm)** | 58 |
| **Net Depth (mm)** | 93 |
| **Net Weight (g)** | 101 |
| **Packed Width (mm)** | 15 |
| **Packed Height (mm)** | 8 |
| **Packed Depth (mm)** | 10 |
| **Packed Weight (g)** | 107 |
| **Operating Temperature °C Min** | -25 |
| **Operating Temperature °C Max** | 60 |
| **Storage Temperature °C Min** | -40 |
| **Storage Temperature °C Max** | 85 |
| **Power Consumption (W)** | 1.54 |
| **Input Voltage (V)** | 14 VDC |
| **Power Connector** | 2-pole |
| **Configuration** | ETS |
| **Capacity** | 1 Indoor unit. |
| **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** | Hisense VRF systems |

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## General

| | |
|---|---|
| **Content of Delivery** | Intesis gateway and installation manual. |
| **Mounting** | DIN rail mount (bracket included), Wall mount |
| **Housing Materials** | Plastic |
| **Warranty (years)** | 3 years |
| **Packaging Material** | Cardboard |

## Identification and Status

| | |
|---|---|
| **Product ID** | INMBSHIS001R000 |
| **Country of Origin** | Spain |
| **HS Code** | 8517620000 |
| **Export Control Classification Number (ECCN)** | EAR99 |

## Physical Features

| | |
|---|---|
| **Connectors / Input / Output** | EIA-485, HVAC port. |
| **LED Indicators** | Gateway and communication status. |
| **DIP & Rotary Switches** | EIA-485 serial port configuration. Gateway settings. |

## Certifications and Standards

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|---|---|
| **ETIM Classification** | EC001604 |
| **WEEE Category** | IT and telecommunications equipment |

## Use Case

