

## Hitachi VRF systems to Modbus RTU Interface

Item number: IN485HIT001R000

The Hitachi-Modbus interface allows full bidirectional communication between Hitachi 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.



*Hitachi to Modbus RTU - 1 indoor unit*

### Features and benefits

- ✓ **BACnet MS/TP and Modbus RTU supported**  
The interface supports both BACnet MS/TP and Modbus RTU protocols.
- ✓ **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.



General	
Net Width (mm)	53
Net Height (mm)	58
Net Depth (mm)	93
Net Weight (g)	95
Packed Width (mm)	140
Packed Height (mm)	86
Packed Depth (mm)	110
Packed Weight (g)	188
Operating Temperature °C Min	0
Operating Temperature °C Max	70
Storage Temperature °C Min	0
Storage Temperature °C Max	70
Power Consumption (W)	1.12
Input Voltage (V)	14 VDC
Power Connector	3-pole
Configuration	Dip-switches
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	Hitachi Commercial & VRF systems



## General

Content of Delivery	Intesis Gateway, Installation Manual, AC Connection cable.
Mounting	DIN rail mount (bracket included), Wall mount
Housing Materials	Plastic
Warranty (years)	3 years
Packaging Material	Cardboard

## Identification and Status

Product ID	IN485HIT001R000_MBS_HIT
Country of Origin	Spain
Export Control Classification Number (ECCN) ERP	8517620000
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN)	EAR99

## Physical Features

Connectors / Input / Output	Power supply, EIA-485, HVAC port.
LED Indicators	Gateway and communication status.
DIP & Rotary Switches	EIA-485 serial port configuration. Gateway settings.
Contains Battery	No

## Certifications and Standards

ETIM Classification	EC001604
UNSPSC	ERPREADY
CE	Yes
CB	Yes



## Certifications and Standards

UKPSTI	Yes
UL	Yes
WEEE Category	IT and telecommunications equipment



## Use Case

**HITACHI**



Integration example.