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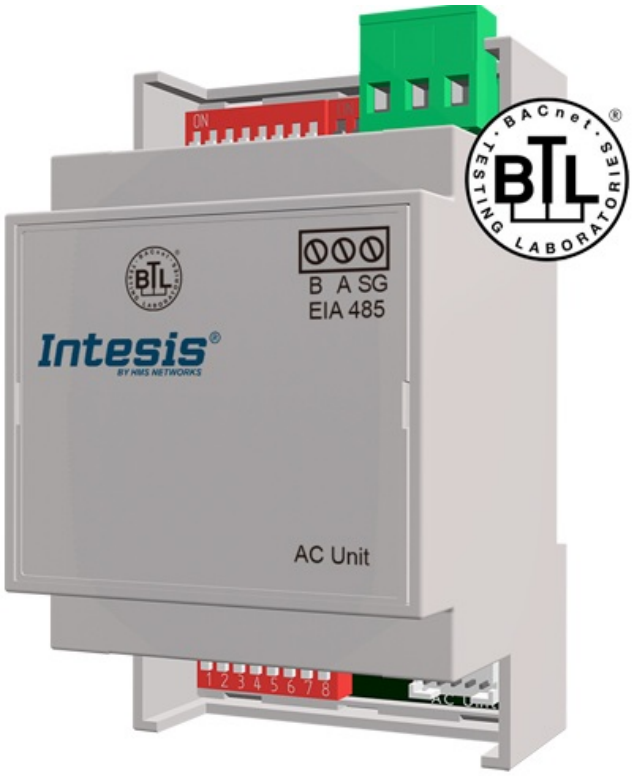
Intesis IN485HIT001R000 VRF Systems to BACnet MS-TP Interface



Specifications

- **Model:** Hitachi VRF systems to BACnet MS/TP interface
- **Item Number:** IN485HIT001R000
- **Supported Protocols:** BACnet MS/TP, Modbus RTU
- **Power Input:** 14 VDC
- **Mounting Options:** DIN rail mount, Wall mount
- **Warranty:** 3 years
- **Housing Material:** Plastic
- **Certifications:** ETIM Classification, UNSPSC, WEEE Category

Product Usage Instructions

Installation:

Ensure the gateway is mounted inside an enclosure. Take precautions to prevent electrostatic discharge when working outside the enclosure. Follow anti-static precautions before making any adjustments or setting switches.

Configuration:

Use the onboard DIP switches for interface configuration. Refer to the installation

manual for detailed instructions on setting up the gateway.

Control and Monitoring:

Utilize BACnet MS/TP for total unit control and monitoring. Access internal variables, the running hours counter, and error indication through the interface.

Power:

Intesis IN485HIT001R000 VRF Systems to BACnet MS-TP Interface

The interface is powered directly from the AC unit, eliminating the need for an external power supply.

Occupancy Function:

Activate the occupancy function to enable energy savings. This feature helps reduce costs by optimizing HVAC system operation.

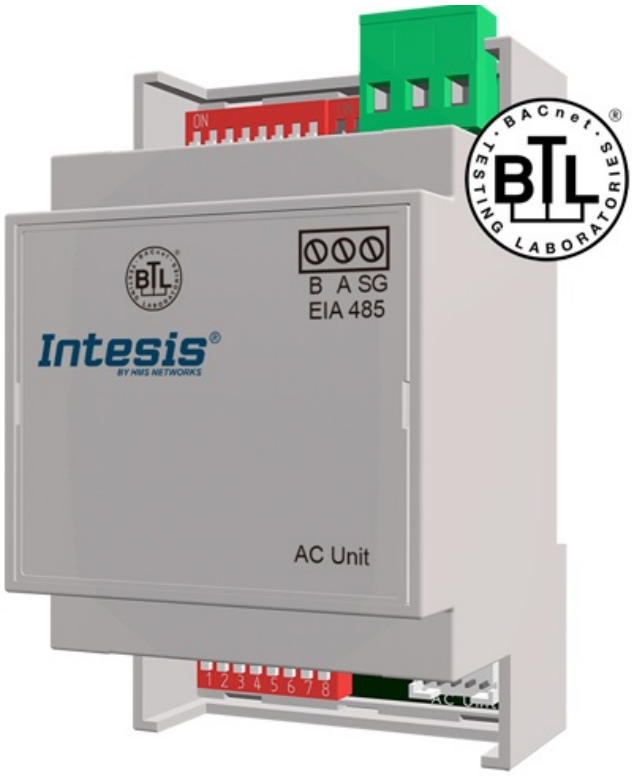
Remote Control:

You can control the AC unit using both the BACnet MS/TP interface and its own remote controller simultaneously.

Item number: IN485HIT001R000

INTRODUCTION

The Hitachi-BACnet interface allows full bidirectional communication between Hitachi VRF units and BACnet MS/TP networks. The interface enables BACnet communication via polling or subscription requests (COV), making the indoor unit available through independent BACnet objects. A wired remote controller can also be connected.



Features and benefits

- **BAChet MS/TP and Modbus RTU supported**
  The interface supports both BACnet MS/TP and Modbus RTU protocols.
- **VAC unit data served as fixed BACnet Objects**
  Air conditioning unit properties and functionalities are abstracted into fixed BACnet Objects.
- **Total unit control and monitoring from BACnet**
  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.
- **Configuration from onboard DIP switches**
  The interface configuration is carried out directly through its onboard DIP switches.
- **An occupancy function to allow energy savings**
  An occupancy function that helps reduce costs, as HVAC systems are one of the main energy consumers.
- **AC unit control by remote and BACnet MS/TP**
  The AC unit can simultaneously be controlled via BACnet MS/TP and its own remote controller.

Hitachi VRF systems to BACnet MS/TP interface

General	
Net Width (mm)	53
Net Height (mm)	58
Net Depth (mm)	93
Net Weight (g)	120
Packed Width (mm)	64
Packed Height (mm)	92
Packed Depth (mm)	120
Packed Weight (g)	160
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

Hitachi VRF systems to BACnet MS/TP interface

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	IN485HIT001R000_BAC_HIT
Country of Origin	Spain

Export Control Classification Number (ECCN) ERP	8517620000
HS Code	8517620000
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.
Certifications and Standards	
ETIM Classification	EC001604
UNSPSC	ERPREADY
WEEE Category	IT and telecommunications equipment

Use Case

Integraon example

Hitachi to BACnet MS/TP – 1 indoor unit

FAQ

- **Q: Is external power required for the interface?**
  - **A:** No, the interface is powered directly from the AC unit.
- **Q: How can I configure the interface?**
  - **A:** Use the onboard DIP switches for configuration. Refer to the installation manual for detailed instructions.

Documents / Resources

	Intesis IN485HIT001R000 VRF Systems to BACnet MS-TP Interface [pdf] Owner's Manual IN485HIT001R000 VRF Systems to BACnet MS-TP Interface, IN485HIT001R000, VRF Systems to BACnet MS-TP Interface, to BACnet MS-TP Interface, MS-TP Interface

References

- User Manual

Intesis

IN485HIT001R000, IN485HIT001R000 VRF Systems to BACnet MS-TP Interface, Intesis, MS-TP Interface, to BACnet MS-TP Interface, VRF Systems to BACnet MS-TP Interface

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