Hitachi VRF systems to BACnet MS/TP interface

Item number: IN485HIT001R000

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.



Hitachi to BACnet MS/TP - 1 indoor unit

Features and benefits

- **BACnet MS/TP and Modbus RTU supported**
  The interface supports both BACnet MS/TP and Modbus RTU protocols.
- **AC 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.
- **Occupancy function to allow energy savings**
  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.

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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

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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	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



Integration example.