Intesis®
BY HMS NETWORKS

Hitachi VRF systems to BACnet IP/MSTP Application

Item number: IN770AIR00SO000

The Hitachi application has been specially designed to allow bidirectional control and monitoring of Hitachi VRF systems from a BMS, SCADA, PLC, or any other device working as a BACnet/IP server or a BACnet MS/TP client. The solution allows the integration of up to 16 indoor units from a single interface.

Hitachi VRF systems to BACnet/IP & MS/TP Application - Up to 16 Indoor Units

Features and benefits

✓ **BACnet/IP and BACnet MS/TP support**

The interface supports both BACnet/IP and BACnet MS/TP protocols.

✓ **Automatic identification**

A scan function is available for automatic identification of the units present in the VRF system.

✓ **Individual indoor unit energy consumption signals**

Energy consumption signals from each indoor unit are available, so they can be checked individually.

✓ **Commissioning-friendly approach with Intesis MAPS**

Templates can be imported and reused as often as needed, significantly reducing commissioning time.

✓ **Direct access to the outdoor unit**

Connection is simple, as the interface connects directly to the outdoor unit's communication bus.

✓ **Outdoor unit signals**

Signals assigned to the outdoor unit are available to be used in the integration.

✓ **Two configuration port options**

Configuration of the interface can be carried out through either its IP or USB (Console) port.

✓ **Configuration tool and interface automatic updates**

Both the Intesis MAPS configuration tool and the interface's firmware can receive automatic updates.

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General

Net Width (mm)	106
Net Height (mm)	58
Net Depth (mm)	90
Net Weight (g)	240
Packed Width (mm)	130
Packed Height (mm)	85
Packed Depth (mm)	140
Packed Weight (g)	550
Operating Temperature °C Min	-10
Operating Temperature °C Max	60
Storage Temperature °C Min	-30
Storage Temperature °C Max	60
Power Consumption (W)	127
Input Voltage (V)	For DC: 12 .. 36 VDC ±10%, Max: 250 mA For AC: 24 VAC ±10 %, 50-60 Hz, Max: 127 mA Recommended voltage: 24 VDC, Max: 127 mA
Power Connector	3-pole
Configuration	Intesis MAPS
Capacity	Up to 16 indoor units and up to 16 outdoor units.
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.
Content of Delivery	Intesis Gateway and Installation Manual.

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General

Not Included (in delivery)	Power supply not included.
Mounting	DIN rail mount (bracket included), Wall mount
Housing Materials	Plastic
Warranty (years)	3 years
Packaging Material	Cardboard

Identification and Status

Product ID	IN770AIR00SO000_BAC_HIT
Country of Origin	Spain
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN)	EAR99

Physical Features

Connectors / Input / Output	Power supply, EIA-485, KNX, Ethernet, HVAC port, Binary inputs (dry contact), Console port USB.
LED Indicators	Gateway and communication status.
Push Buttons	Factory reset. I-Am message (for BACnet only). Normal mode/programming mode switch (for KNX only).
DIP & Rotary Switches	EIA-485 serial port configuration.
Contains Battery	No
Battery Description	Manganese Dioxide Lithium button battery.

Certifications and Standards

ETIM Classification	EC001604
CE	Yes
CB	Yes

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Certifications and Standards

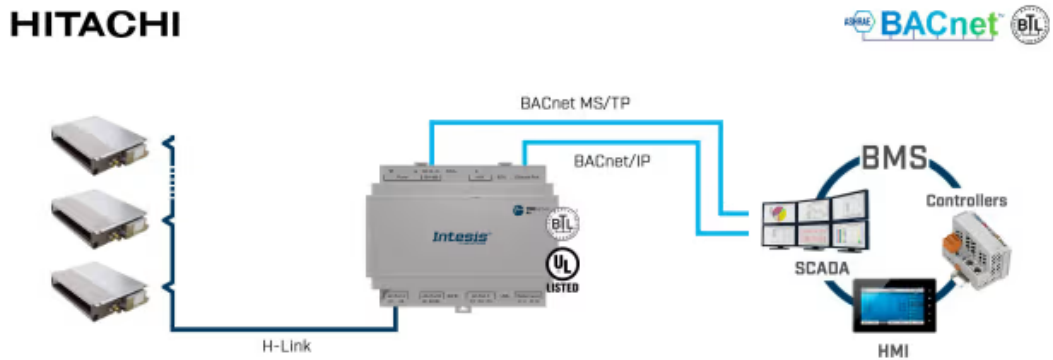|	
UKCA	Yes
UKPSTI	Yes
UL	Yes
BTL	Yes
WEEE Category	IT and telecommunications equipment

Use Case
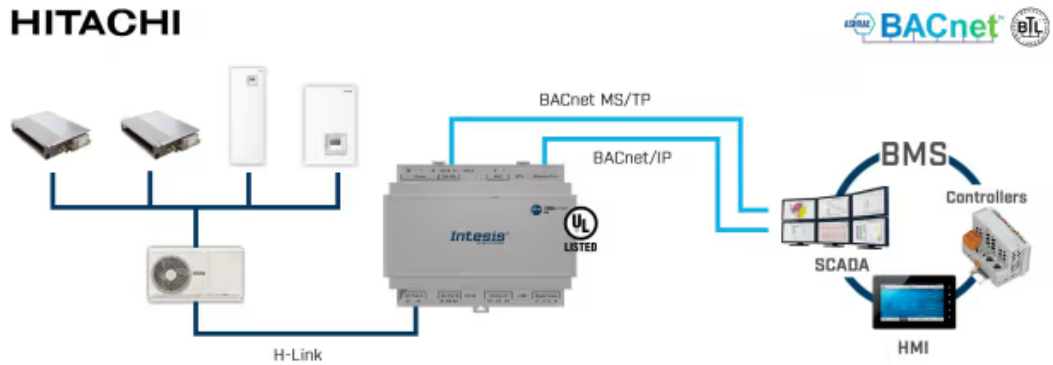
Integration example: when using the gateway to integrate mixed unit types like VRF and Ait-to-water systems.

Integration example.

Use Intesis MAPS to change the protocol: BACnet, Modbus, KNX, or Home Automation