

Mitsubishi Heavy Industries VRF systems to Modbus TCP/RTU Application

Item number: IN776MHI00SO000

The Mitsubishi Heavy Industries application has been specially designed to allow bidirectional control and monitoring of Mitsubishi Heavy Industries VRF systems from a BMS, SCADA, PLC, or any other device working as a Modbus client. The solution allows the integration of up to 128 indoor units from a single interface.



Mitsubishi Heavy Industries to Modbus TCP/RTU - Up to 16 Indoor Units

Features and benefits				
Simultaneous Modbus TCP and RTU management 📀	Direct access to the outdoor unit			
The gateway is a Modbus server and is able to manage both Modbus TCP and Modbus RTU simultaneously.	Connection is simple, as the interface connects directly to the outdoor unit's communication bus.			
Automatic identification	Outdoor unit signals			
A scan function is available for automatic identification of the units present in the VRF system.	Signals assigned to the outdoor unit are available to be used in the integration.			
Individual indoor unit energy consumption signals 🛛 🛛 🥥	Multiple TCP client support			
Energy consumption signals from each indoor unit are available, so they can be checked individually.	The interface supports up to 6 TCP clients (incoming sockets).			
Commissioning-friendly approach with Intesis MAPS	Configuration tool and interface automatic updates			
Templates can be imported and reused as often as needed, significantly reducing commissioning time.	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 12 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	IN776MHI00SO000_MBS_MHI
Country of Origin	Spain
HS Code	8517620000
Dual Usage	No
Export Control Classification	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
СВ	Yes





Certifications and Standards

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

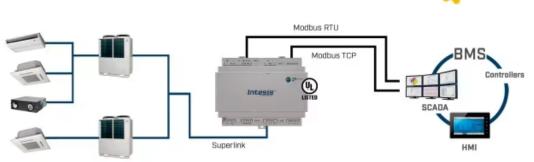


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Modbus

Use Case



Integration example.



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

