Intesis®
BY HMS NETWORKS

Samsung NASA VRF systems to Modbus TCP/RTU Application

Item number: IN770AIRXXSO000

The Samsung application has been specially designed to allow bidirectional control and monitoring of Samsung NASA VRF systems from a BMS, SCADA, PLC, or any other device working as a Modbus client. The solution allows the integration of up to 4 indoor units from a single interface.

Samsung to Modbus TCP/RTU - Up to 4 Indoor Units

Features and benefits

Simultaneous Modbus TCP and RTU management

The gateway is a Modbus server and is able to manage both Modbus TCP and Modbus RTU simultaneously.

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.

WindFree supported

This interface supports the WindFree™ Cooling technology and all the advantages it brings.

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.

Multiple TCP client support

The interface supports up to 6 TCP clients (incoming sockets).

Commissioning-friendly approach with Intesis MAPS

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

Samsung NASA VRF systems to Modbus TCP/RTU Application

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 4 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.

Samsung NASA VRF systems to Modbus TCP/RTU Application

General

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

Identification and Status

Product ID	IN770AIRXXSO000_MBS_SAM
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

Certifications and Standards

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

Use Case
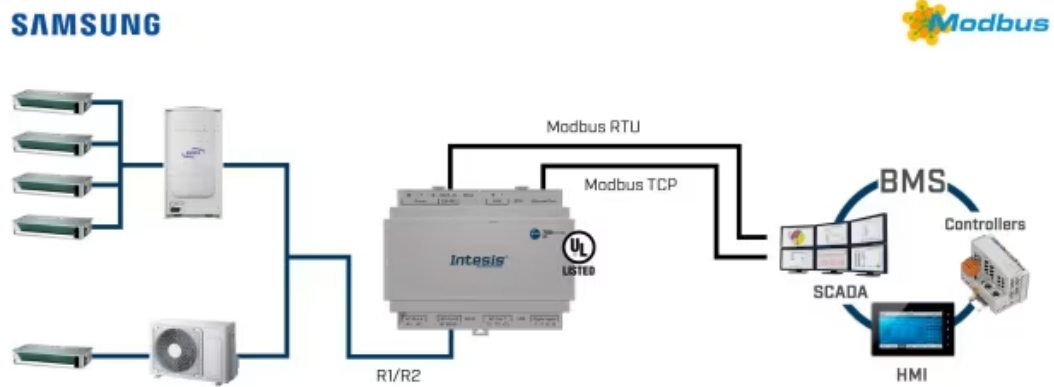
Integration example.

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