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Intesis INMBSSAM001R000 NON-NASA Units to Modbus RTU Interface



Specifications

• Item Number: INMBSSAM001R000

• Compatibility: Samsung NON-NASA air conditioner units

• Power Supply: 12 VDC

• Communication: Modbus RTU (RS-485)

• Mounting: Designed for enclosure mounting

• Warranty: 3 years

• Country of Origin: Spain

Product Usage Instructions

Installation Conditions

The gateway is designed to be mounted inside an enclosure. Precautions should be taken to prevent electrostatic discharge when mounting outside an enclosure.

Configuration Options

Configuration can be performed using the onboard DIP switches and the Modbus interface. Ensure proper settings for unit control and monitoring.

Power Supply

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

Samsung NON-NASA units to Modbus RTU Interface

Item number: INMBSSAM001R000

The Samsung-Modbus interface allows full bidirec onal communica on between Samsung NON-NASA air condi oner units and Modbus RTU (RS-485) networks. The interface acts as a server device for the installa on, accessing all signals from the air condi oner unit. A wired remote controller can also be part of the network.

Features and benefits

Modbus RTU (EIA-485) server device

The interface acts as a Modbus server device through its Modbus RTU (EIA-485 connector) port.

Energy savings through a window contact func on This func on helps minimize costs, as HVAC systems are a major building energy consumer.

· AC unit control by both the remote and Modbus RTU

The AC unit can be simultaneously controlled by the manufacturer's remote controller and Modbus RTU.

Mul ple moun ng op ons

Moun ng op ons include DIN rail, wall, or, in some AC models, even inside the indoor unit.

• Dual configura on op ons

Configura on is carried out through the interface's onboard DIP switches and the Modbus interface.

Total unit control and monitoring from Modbus RTU

Through internal variables, running hours counter (for maintenance purposes), and error indica on.

No external power required

The interface is powered directly from the AC unit, so no external power supply is required.

Samsung NON-NASA units to Modbus RTU Interface

General				
Net Width (mm)	53			
Net Height (mm)	58			
Net Depth (mm)	93			
Net Weight (g)	84			
Packed Width (mm)	15			
Packed Height (mm)	9			
Packed Depth (mm)	11			
Packed Weight (g)	90			
Operating Temperatur e °C Min	-25			
Operating Temperatur e °C Max	60			
Storage Temperature ° C Min	-40			
Storage Temperature ° C Max	85			
Power Consumption (W)	1.2			
Input Voltage (V)	12 VDC			
Power Connector	2-pole			
Configuration	ETS			

Capacity	1 Indoor unit.					
Installation Conditions	This gateway is designed to be mounted inside an enclosur e. If the unit is mounted outside an enclosure, precautions s hould always be taken to prevent electrostatic discharge to the unit. When working inside an enclosure (e.g., making a djustments, setting switches, etc.), typical anti-static precautions should always be followed before touching the unit.					
AC Model Compatibilit y	Samsung NON-NASA systems					

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	INMBSSAM001R000				
Country of Origin	Spain				
HS Code	8517620000				
Export Control Classi fication Number (ECC N)	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				
WEEE Category	IT and telecommunications equipment				

Use Case



Samsung to Modbus RTU - 1 indoor unit

FAQ

- Q: Can the interface be used with any Samsung air conditioner model?
 - A: The interface is compatible with Samsung NON-NASA systems. Ensure compatibility before installation.
- Q: How is the interface powered?
 - A: The interface is powered directly from the AC unit, requiring no external power supply.
- Q: What are the main features of the Samsung-Modbus interface?
 - A: The interface allows bidirectional communication between Samsung NON-NASA air conditioner units and Modbus RTU networks. It provides total unit

control and monitoring through internal variables, running hours counter, and error indication.

Documents / Resources



Intesis INMBSSAM001R000 NON-NASA Units to Modbus RTU Interface [pdf] Owner's Manual

INMBSSAM001R000, INMBSSAM001R000 NON-NASA Units to Modbus RTU Interface, INMBSSAM001R000, NON-NASA Units to Modbus RTU I nterface, Units to Modbus RTU Interface, Modbus RTU Interface, RTU Interface

References

- User Manual
- Intesis

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