Bosch Commercial & VRF systems to Modbus RTU Interface

Item number: INMBSACA001I000

The Bosch-Modbus interface allows full bidirectional communication between Bosch Commercial and VRF systems and Modbus RTU (RS-485) networks. The interface acts as a server device for the installation, accessing all signals from the air conditioner unit.

Bosch to Modbus - 1 indoor unit

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 function**
  This function 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.
- **Dual configuration options**
  Configuration 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 indication.
- **Multiple mounting options**
  Mounting options include DIN rail, wall, or, in some AC models, even inside the indoor unit.

14 rue Edouard Petit
42000 St-Etienne

Tel : +33 477 92 03 56
Email : contact@rg2i.com
www.rg2i.com

Bosch Commercial & VRF systems to Modbus RTU Interface

General

Net Width (mm)	53
Net Height (mm)	58
Net Depth (mm)	93
Net Weight (g)	78
Packed Width (mm)	140
Packed Height (mm)	86
Packed Depth (mm)	110
Packed Weight (g)	216
Operating Temperature °C Min	-25
Operating Temperature °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
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	Commercial AC & VRF systems
Content of Delivery	Intesis Gateway, Installation Manual, AC Connection cable.

Bosch Commercial & VRF systems to Modbus RTU Interface

General

Mounting	DIN rail mount (bracket included), Wall mount
Housing Materials	Plastic
Warranty (years)	3 years
Packaging Material	Cardboard

Identification and Status

Product ID	INMBSACA001I000
Country of Origin	Spain
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN)	EAR99

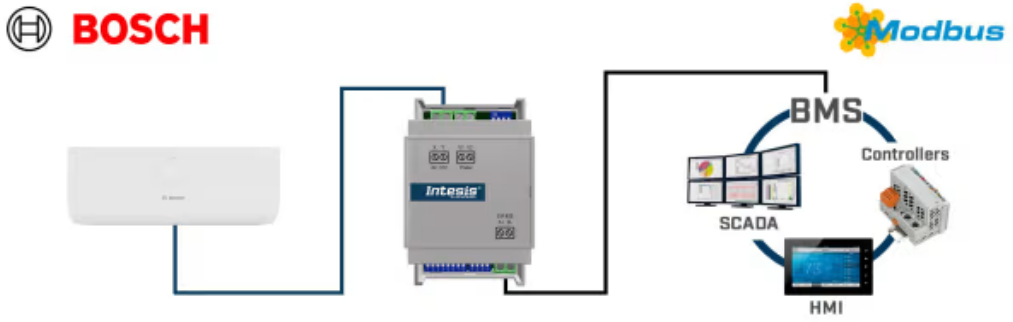
Physical Features

Connectors / Input / Output	Power supply, EIA-485, HVAC port.
LED Indicators	KNX. Gateway and communication status.
DIP & Rotary Switches	EIA-485 serial port configuration.
Contains Battery	No

Certifications and Standards

CE	Yes
CB	Yes
UKPSTI	Yes
UL	Yes
WEEE Category	IT and telecommunications equipment

Use Case



Integration example.