Fujitsu RAC and VRF systems to Modbus RTU Interface (to CN connector)

Item number: IN485FGL001I000

The Fujitsu-Modbus interface allows full bidirectional communication between Fujitsu RAC 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.

Fujitsu to Modbus RTU - 1 indoor unit

Features and benefits

- **BACnet MS/TP and Modbus RTU supported**
  The interface supports both BACnet MS/TP and Modbus RTU protocols.
- **Energy savings through a window contact function**
  This function helps minimize costs, as HVAC systems are a major building energy consumer.
- **Wide AC unit control and monitoring from Modbus**
  Wide AC unit control and monitoring from Modbus, including EcoMode, filter alarm, errors, and more.
- **No external power required**
  The interface is powered directly from the AC unit, so no external power supply is required.
- **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.
- **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.
- **Multiple mounting options**
  Mounting options include DIN rail, wall, or, in some AC models, even inside the indoor unit.

Fujitsu RAC and VRF systems to Modbus RTU Interface (to CN connector)

General

Capacity	1 indoor unit
Net Width (mm)	53
Net Height (mm)	93
Net Depth (mm)	58
Net Weight (g)	78
Packed Width (mm)	135
Packed Height (mm)	85
Packed Depth (mm)	100
Packed Weight (g)	216
Operating Temperature °C Min	0º
Operating Temperature °C Max	70º
Storage Temperature °C Min	0
Storage Temperature °C Max	70
Power Consumption (W)	1.02
Input Voltage (V)	12 VDC
Power Connector	Other
Configuration	Dip-switches
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	Fujitsu RAC and VRF systems

Fujitsu RAC and VRF systems to Modbus RTU Interface (to CN connector)

General

Content of Delivery	Intesis gateway, installation manual and AC connection cable.
Mounting	DIN rail mount (bracket included), Wall mount
Housing Materials	Plastic
Warranty (years)	3 years
Packaging Material	Cardboard

Identification and Status

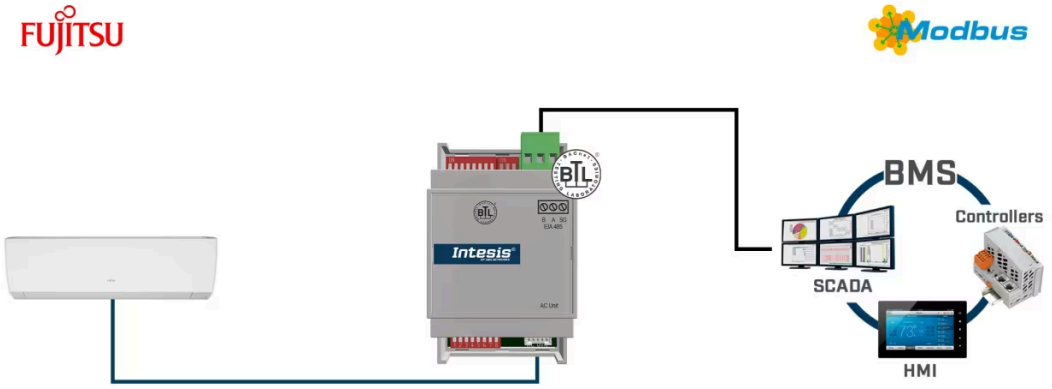
Product ID	IN485FGL001I000_MBS_FGL
Country of Origin	Spain
Export Control Classification Number (ECCN) ERP	8517620000
HS Code	8517620000
Dual Usage	No

Physical Features

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

Certifications and Standards

UNSPSC	ERPREADY
Product Certifications	CE, CB, UKPSTI, UL
WEEE Category	IT and telecommunications equipment

Fujitsu RAC and VRF systems to Modbus RTU Interface (to CN connector)

Use Case