Universal IR Air Conditioner to Modbus RTU Interface

Item number: IN485UNI001I100

The Universal Infrared (IR)-Modbus RTU device allows complete and natural integration of any air conditioner unit equipped with an infrared receiver into Modbus RTU systems. Thanks to the device's capability of emitting and receiving IR signals, the AC unit can be controlled simultaneously by both the Modbus RTU system and the IR remote.

Universal IR 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.
- **Automatic IR remote configuration via auto-learn**
  An auto-learn function is available to set the IR remote controller configuration automatically.
- **Quick and easy configuration using Intesis MAPS**
  Quick configuration of your Universal IR to BACnet MS/TP interfaces in one project via Intesis MAPS.
- **Built-in room temperature and humidity sensors**
  A room temperature sensor and a humidity sensor are built into the interface.
- **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.
- **Configuration tool and interface automatic updates**
  Both the Intesis MAPS configuration tool and the interface's firmware can receive automatic updates.

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General

Net Width (mm)	53
Net Height (mm)	58
Net Depth (mm)	93
Net Weight (g)	52
Packed Width (mm)	151
Packed Height (mm)	98
Packed Depth (mm)	85
Packed Weight (g)	361
Operating Temperature °C Min	0
Operating Temperature °C Max	60
Storage Temperature °C Min	0
Storage Temperature °C Max	60
Power Consumption (W)	1.25
Input Voltage (V)	5 VDC
Power Connector	USB
Configuration	Intesis MAPS
Capacity	1 Indoor unit.
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	Compatible with any air conditioner unit equipped with an infrared receiver.

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General

Content of Delivery	Intesis Gateway, Installation Manual and Power supply.
Mounting	Wall mount
Housing Materials	Plastic
Warranty (years)	3 years
Packaging Material	Cardboard

Identification and Status

Product ID	IN485UNI001I100_MBS_UNI
Country of Origin	Spain
Export Control Classification Number (ECCN) ERP	8517620000
HS Code	8517620000
Dual Usage	No
Export Control Classification Number (ECCN)	EAR99

Physical Features

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

Certifications and Standards

ETIM Classification	EC001604
CE	Yes
CB	Yes
UKCA	Yes

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Certifications and Standards

UKPSTI	Yes
UL	Yes
WEEE Category	IT and telecommunications equipment

Use Case

Integration example.