

Installation Guide for the IN485UNI001I1** Gateway

The order code may vary depending on the product seller and the buyer's location. Version: 1.0.6

Owner's record

Find the serial number on the silver label on the rear side of the gateway. For sales or technical assistance, we recommend writing it in the space below: **SN:**

Safety Information



Follow these instructions carefully. Improper work may seriously harm your health and damage the gateway and/or any other equipment connected to it.

Only technical personnel, following these instructions and the country legislation for installing electric equipment, can install and manipulate this gateway.

Install this gateway indoors, in a restricted access location, avoiding exposure to direct solar radiation, water, high relative humidity, or dust.

All wires for communication and power supply (if needed) must only be connected to networks without routing to the outside plant. All communication ports are considered for indoor use and must only be connected to SELV circuits.

Disconnect power wires before manipulating and connecting them to the gateway.

Supply the correct voltage to power the gateway. See the Technical Specifications table at the end of this document.

Respect the expected polarity of power (if needed) and communication cables when connecting them to the gateway.

Configuration Instructions

Use the Intesis MAPS configuration tool to configure the device.

- See instructions on how to download and install the latest version at: https://www.hms-networks.com/software-and-tools/intesis-maps.
- 2. Check the User manual for a detailed description of the configuration process.

1.

Connection Instructions



- LED
- IR emitter and receptor
 RS-485 connector
- RS-485 connector
 USB Port
- Temperature probe & humidity sensor
 button
- Connect the RS-485 bus cable to the built-in RS-485 three-position terminal block.



Signal ground
A (+)

З. В (-)

 Connect the power supply included in the package to the gateway's USB port (mini-B type). If you use an external power supply, make sure it meets the requirements listed in the technical specifications table.



A circuit breaker must be installed before the power supply to ensure safety. Rating 250V-6A.

3. Connect the gateway and the rest of the systems to power.

Installation Instructions



Install the Intesis IN485UNI001I100 on a wall or place it on a desktop.

Check the gateway emplacement using your air conditioner IR remote controller. Ensure you can control the AC unit properly with the IR remote controller from that location.

Several emplacements are allowed, as shown in the figures below:





Consider that, in these two emplacement options shown above, the signal rebounds on a wall or the floor to link the AC unit and the gateway. Some furniture and materials (carpets, curtains, glass, metal...) may affect IR communication.

Figure 1. Gateway placed below (left) or alongside the AC unit (right)



Figure 2. Gateway placed in front of the AC unit (left) or over a desktop or any other horizontal surface (right)

DIP Switches



Observe the polarity: SG for signal ground connection, A+, B-.

To access the built-in DIP Switch block, open the enclosure by releasing the rear lid. Next, gently bend both frontal click-fit tabs by inserting a flat-tipped tool (size < 5 mm). This operation must be performed by qualified personnel only.



When closing the enclosure, ensure its frontal and rear parts fit perfectly. Two signs informing of a wrong closing are:

- The push button does not protrude from its hole and gets stuck inside the lid, which will cause a malfunction.
- The LED blinks in white.

Table 1. Dip Switch Block

Binary Value	Position			Description	
b0 b2	1	2	3	Description	
0 X X	\downarrow	х	х	EIA-485 bus without termination resistor (Default value)	
1 X X	↑	Х	Х	Internal termination resistor of 120 Ω connected to the EIA-485 bus	
X 0 0	х	\downarrow	\downarrow	No BUS polarization (default value)	
X 1 1	Х	\uparrow	\uparrow	BUS polarization active	

LEDs Information

The device has one multicolor LED that informs of the current device's behavior.

Normal operation		
LED color	Pattern	Description
RED	STEADY	HEAT mode
BLUE	STEADY	COOL mode
BLUE	STEADY	DRY mode
YELLOW	STEADY	AUTO mode
GREEN	STEADY	FAN mode
RED	BLINK 3 times	Command received or sent during HEAT mode
BLUE	BLINK 3 times	Command received or sent during COOL mode
BLUE	BLINK 3 times	Command received or sent during DRY mode
YELLOW	BLINK 3 times	Command received or sent during AUTO mode
GREEN	BLINK 3 times	Command received or sent during FAN mode

Parrot mode			
LED color	Pattern	Description	
WHITE	0.5 s ON – 0.5 s OFF	Parrot mode ON	

Auto learn mode		
LED color	Pattern	Description
WHITE	STEADY	The device is ready to get an IR frame

Device connected via USB			
LED color	Pattern	Description	
ORANGE	STEADY (low intensity)	USB link performed	
ORANGE	STEADY (high intensity)	Intesis MAPS communication	
MAGENTA	0.5 s ON - 0.5 s OFF	USB communication (FW download in progress)	
CYAN	1s ON - 1s OFF (x3)	FW download finished	

Error notification			
LED color	Pattern	Description	
RED	BLINKING (low intensity)	RCF corruption	

Push Button

Find the push button at the bottom of the device. This button performs two different actions:

• Enable/disable the parrot mode: Press the button three times (three clicks) to activate/deactivate the parrot mode.



When the parrot mode is enabled, the IN485UNI00111** device acts as an IR controller repeater. Use this function to find the proper installation place for this device. See the Installation Instructions above.

Intesis

• Turn the AC On/Off:

AC actual status	User action	AC behavior	
Off	One click	Turns on in cool mode at 25°C	
Off	Two clicks	Turns on in heat mode at 21°C	
On	One or two clicks	Turns off	
These functions are not allowed when the parrot mode is active.			

Technical Specifications

	Plastic, PC-Type (UL94 V-0)
Housing	Net dimensions (HxWxD): 93 x 60 x 21 mm / 3.7" x 2.4" x 0.9"
	Color: Light Grey. NCS S 1002-B
Weight	55 g (1.94 oz)
Mounting	Wall
Mounting	On an horizontal surface (e.g. a desktop)
	For terminal: solid wires or stranded wires (twisted or with ferrule)
Terminal wiring	One core: 0.25 1 mm ² (24 17 AWG)
	Two cores: 0.25 0.75 mm ² (24 19 AWG)
	Three cores: 0.25 0.75 mm ² (24 19 AWG)
EIA-485	1 x EIA-485 pluggable terminal block (3 poles: Signal ground, A, and B) with 120 Ω resistor termination and polarization configurable by DIP switch
DIP switch	1 x DIP switch block for bus polarization and termination resistor
USB port	1 x Standard USB (mini-B type), 5VDC
038 port	Max Consumption: 400 mA
Buttons	1 x Push button
	SELV-rated NEC class 2 or limited power source (LPS) power
Power supply	
Onerstiensl	5 VDC, 400 mA
temperature	0 60°C / 32 140°F
Operational humidity	5 95% RH, non-condensing
Protection	IP20 (IEC60529)
LED Indicators	1 x external LED for operational status

Disposal and Recycling



This product contains electronic components and must be properly disposed of according to local laws and regulations. For further information, refer to: https://www.hms-networks.com/sustainability

For further information on the installation, connection, and configuration of this gateway, refer to the User manual.