Installation Sheet for the IN485UNI001I1xx

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

Version: 1.0.3

Owner's record

Find the serial number on the silver label on the right side of the device. 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 device 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 device.

Install this device 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 device.

Supply the correct voltage to power the device. See the Technical Specifications table at the end of this document.
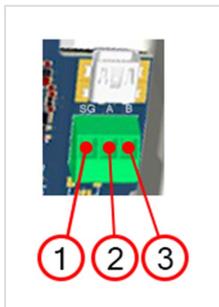
Respect the expected polarity of power (if needed) and communication cables when connecting them to the device.

Connection Instructions

1. LED
2. IR emitter and receptor
3. RS-485 connector
4. USB Port
5. Temperature probe & humidity sensor
6. button

1. Connect the RS-485 bus cable to the built-in RS-485 three-position terminal block

1. Signal ground
2. A (+)
3. B (-)

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

2. Connect a USB cable (not included) to the USB built-in connector (mini-B type) for power supplying purposes, or for communication with the configuration tool. If you use an external power supply make sure it meets the technical specifications given in the table below.

3. Power on the Intesis device and any other connected device.

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

Configuration Instructions

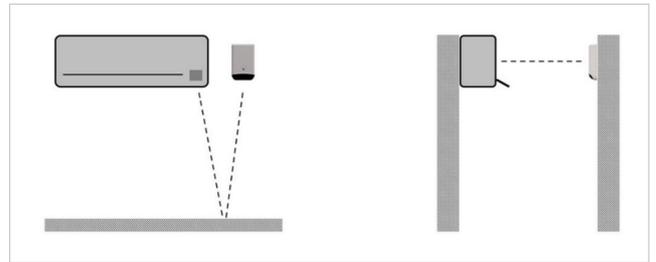**Use the Intesis MAPS configuration tool to configure the device.**

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

Installation Instructions

! Install the Intesis IN485UNI001I1xx on a wall or place it on a desktop.

Check the device emplacement using your air conditioner IR remote controller. Make sure that 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:

Device placed side-by-side with the AC unit (left) or in front of the AC unit (right)

Placing the device under the AC unit (left) or on a desktop (right)

DIP Switches

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.

Table 1. Dip Switch Block

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

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

Technical Specifications

Housing	Plastic, PC-Type (UL94 V-0)
	Net dimensions (dxwxh): 93 x 58.5 x 21 mm / 3.7" x 2.3" x 0.83"
	Color: Light Grey. NCS S 1002-B
Weight	55 g (1.94 oz)
Mounting	Wall
	On a clean surface (e.g. a desktop)
Terminal wiring	For terminal: solid wires or stranded wires (twisted or with ferrule)
	One core: 0.25 to 1 mm^2 (24 to 17 AWG)
	Two cores: 0.25 to 0.75 mm^2 (24 to 19 AWG)
	Three cores: 0.25 to 0.75 mm^2 (24 to 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
Power supply	Supplied through the KNX bus. See **KNX port** below
USB port	1 x Standard USB (mini-B type), 5VDC
	Max Consumption: 400 mA
Buttons	1 x Push button
Power supply	SELV-rated NEC class 2 or limited power source (LPS) power supply
	5 VDC, 0.4 A
Operational and storage temperature	Celsius: Op: 0 to 60°C; St: -20 to 85°C
	Fahrenheit: Op: 32 to 140°F; St: -4 to 185°F
Operational and storage humidity	Op: 5 to 95% RH, non-condensing; St: <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.intesis.com/weee-regulation

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