

Installation Guide for the INKNXUNI001I2** Gateway

Version: 1.0.4

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:

This is a KNX Data Secure Gateway

To know more, visit knx.org.

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.

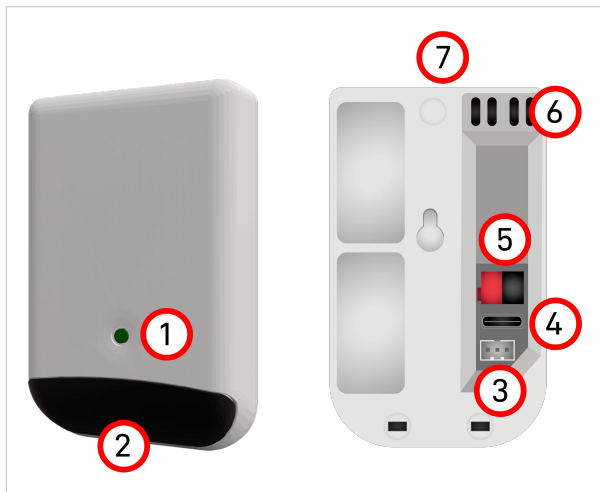
All wires for communication and power supply (if needed) must only be connected to networks without routing to the outside plant. All communication ports are considered for indoor use and must only be connected to SELV circuits.

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

Use a circuit-breaker before the power supply. Rating 250 V, 6 A.

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

Layout



- 1 LED indicator
- 2 IR emitter/receptor
- 3 Binary inputs port
- 4 USB type C

- 5 KNX port
- 6 Temp. probe and humidity sensor
- 7 Push button



Do not open the enclosure. If opened, it must be closed correctly, ensuring 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.

Configuration

Use the official KNX software tool [ETS](https://www.ets.com) (ETS 5 or higher is required) and the product-specific DCA to configure this gateway.



Before starting the configuration process, you must power the gateway by connecting it to the KNX bus.

1. Connect the gateway to the KNX bus to power it.
2. Connect the gateway to your laptop through the USB type C port.
3. Open ETS.
4. Use the DCA for the IR configuration.
5. Add the device certificate by scanning the QR code.
6. Create the rest of your project as usual.

To know more about the gateway configuration and commissioning, please refer to the User manual.

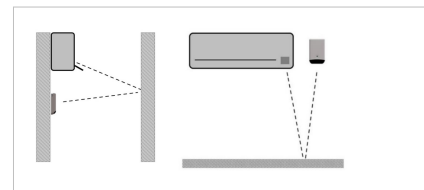
Installation



Install the Intesis INKNXUNI001I2** gateway 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)

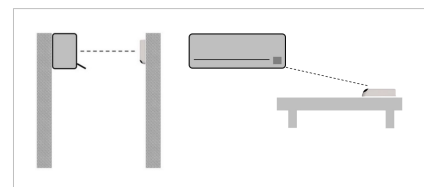


Figure 2. Gateway placed in front of the AC unit (left) or over a desktop or any other horizontal surface (right)

Connection

1. Connect the KNX bus to the KNX port of the gateway.



Observe the polarity:

- Red connector: +
- Grey connector: -

2. To use the binary inputs, connect the supplied cable to the binary inputs port.
 - a. Connect the black cable to ground.
 - b. Use the white cables to connect external devices (e.g., energy meters)

Push Button

Press the button to enable the KNX programming mode.

Long press (5 seconds) the button to enable/disable the manual control mode:

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

Dimensions



Leave enough clear space to wire the gateway easily and for the subsequent manipulation of elements.

LEDs Information

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 gateway is ready to get an IR frame

Gateway connected via USB		
LED color	Pattern	Description
ORANGE	STEADY (high intensity)	KNX DCA 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

KNX programming mode		
LED color	Pattern	Description
RED	OFF	Programming mode disabled
	ON	Programming mode enabled
	0.5 s ON - 0.5 s OFF	Individual address check

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

Technical Specifications

Housing	Plastic, PC-Type (UL94 V-0) 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	80 g (2.82 oz)
Mounting	Wall On an horizontal surface (e.g. a desktop)
DIP switch	1 x DIP switch block for bus polarization and termination resistor - Position 1: - On: 120 Ω termination active - Off: 120 Ω termination inactive (default) - Positions 2 and 3: - On: Polarization active (default) - Off: Polarization inactive
Power supply	Supplied through the KNX bus. See KNX port below
KNX port	1 x KNX TP standard red and gray terminal block (2 poles) Cross-section/gauge: 0.8 mm ² (18 AWG) KNX power consumption: 17 mA Voltage rating: 29 VDC
Binary inputs port	1 x JST PHR-3 connector (cable included) 50 pulse counter compatible Provided wires: Cross-section/gauge: 0.2 mm ² (24 AWG) Length: 12 cm / 4.7" Colors: 2 x binary input 1 and 2 (white), 1 x GND (black)
USB port	1 x USB Type-C, USB 2.0 compliant
Temperature and humidity sensor	Humidity: 5 .. 100% HR (accuracy: ±10%) Temperature: 0 .. 60°C / 32 .. 140°F (accuracy: ±5%)
Buttons	1 x Push button
Operational temperature	0 .. 60°C / 32 .. 140°F
Operational humidity	5 .. 95% RH, non-condensing
Isolation between communication ports	1000 VDC
Protection	IP20 (IEC60529)
LED Indicators	1 x external LED for device and KNX programming 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.