

## Safety instructions



Electrical devices may only be mounted and connected by a qualified electrician.

Serious injury, fire or damage to property possible. Read and follow these instructions completely.

Install indoors only in a location with restricted access. Avoid direct sunlight, water, high humidity and dust.

Connect all cables for communication and power supply (if required) only to networks that do not lead to the outside. All communication connections are intended for indoor use and may only be connected to SELV circuits.

When connecting the gateway, observe the specified polarity of the power supply.



Devices marked with this symbol must be disposed of separately from unsorted municipal waste. Please contact our support team before returning a device. Your dealer is obliged to take back the device free of charge.



Further information on installation, connection and configuration can be found in the user manual.

## Owner information

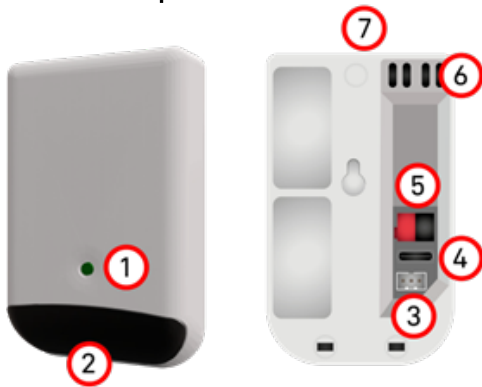
The serial number can be found on the silver label on the back of the gateway. For sales or technical support, we recommend entering this in the field below.

SN:

## Intended use

- KNX IR gateway for controlling universal air conditioning systems
- Compatible with split air conditioning units from common manufacturers

## Device components



1. LED indicator	5. KNX port
2. IR transmitter/receiver	6. Temperature and humidity sensor
3. Binary inputs port	7. Push button
4. USB Type C port	

Do not open the housing. If it has been opened, ensure that the front and rear sides are flush with each other when closing and that the programming button protrudes from the housing. Otherwise, malfunctions may occur, which may manifest themselves, for example, in the LED flashing white.

## Configuration

Use the KNX software tool ETS (from ETS 5) and the product-specific DCA to configure this gateway.

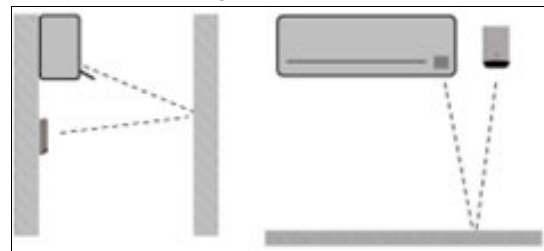
1. Connect the gateway to the KNX bus to supply it with power.
2. Connect the gateway to your laptop via the USB Type C port.
3. Open ETS.
4. Use DCA for the IR configuration.
5. Add the device certificate by scanning the QR code.
6. Continue with the configuration as usual.

## Installation

The IR gateway can be mounted on a wall or placed on a table. The air conditioner must be operable from this position using the air conditioners IR remote control.

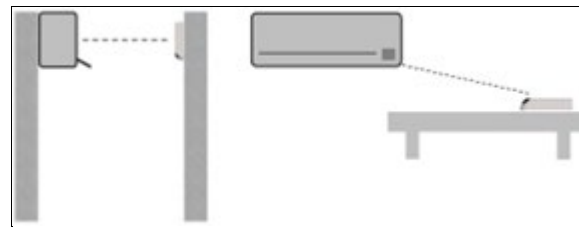
When mounting, leave enough space to easily connect the gateway and then operate it.

Examples of mounting locations:



Examples 1 and 2: Gateway placed below (left) or next to the air conditioner (right)

Please note that in the two installation locations shown above, the signal is reflected off a wall or the floor to connect the air conditioner and the gateway. Furniture and materials (e.g. carpets, curtains, glass, metal) can interfere with IR communication.



Examples 3 and 4: Gateway opposite the air conditioner (left) or on a desk (right)

## Electrical connection

1. Connect the KNX bus to the KNX port on the gateway.
2. To use the binary inputs, connect the supplied cable to the binary input port.
3. Connect the black cable to the ground.
4. Use the white cables to connect external devices (e.g. energy meters).

## Button functions

1. Press button (7) to activate KNX programming mode.
2. Press button (7) for 5 seconds to activate/deactivate manual control mode:

AC actual status	User action	AC behaviour
Off	1 click	Switches on in cooling mode at 25 °C
Off	2 clicks	Switches on in heating mode at 21 °C
On	1 or 2 clicks	Switches off

## LED signalling

Normal operation		
LED colour	Signal	Description
Red	Continuous	HEAT mode
Blue	Permanent	COOL mode
Blue	Permanent	DRY mode
Yellow	Permanent	AUTO mode
Green	Permanent	FAN mode
Red	3 x flashing	Command received during HEAT mode or sent
Blue	3 x flashes	Command during COOL mode Received or sent
Blue	3 x flashes	Command in DRY mode received or sent
Yellow	3 x flashing	Command received or sent in AUTO mode sent
Green	3 x flashing	Command received or sent in FAN mode sent

Parrot mode		
LED colour	Signal	Description
White	0.5 s ON – 0.5 s OFF	Parrot mode ON

Automatic learning mode		
LED colour	Signal	Description
White	Permanent	The gateway is ready to receive an IR frame

Gateway connected via USB		
LED colour	Signal	Description
Orange	Steady (high intensity)	KNX DCA communication
Magenta	0.5 s ON – 0.5 s OFF	USB communication (FW download in progress)
Cyan	1 s ON – 1 s OFF (3x)	FW download complete

KNX programming mode		
LED colour	Signal	Description
Red	OFF	Programming mode deactivated
	ON	Programming mode activated
	0.5 s ON – 0.5 s OFF	Individual address check

Error message		
LED colour	Signal	Description
Red	Flashing (low intensity)	RCF damage

## Technical data

<b>Housing</b>	<ul style="list-style-type: none"> <li>Plastic, PC type (UL94 V-0)</li> <li>Dimensions (HxWxD): 93 x 60 x 21 mm / 3.7" x 2.4" x 0.9"</li> <li>Colour: Light grey. NCS S 1002-B</li> </ul>
<b>Weight</b>	80 g (2.82 oz)
<b>Mounting</b>	<ul style="list-style-type: none"> <li>Wall</li> <li>Horizontal surface (e.g. a desk)</li> </ul>
<b>Power supply</b>	Power supply via the KNX bus. See <b>KNX port</b> below.
<b>KNX port</b>	<ul style="list-style-type: none"> <li>1 x KNX TP standard terminal block red and grey (2-poles) Cross-section/gauge: 0.8 mm<sup>2</sup> (18 AWG )</li> <li>KNX power consumption: 17 mA</li> <li>Voltage rating: 29 VDC</li> </ul>
<b>Binary inputs port</b>	1 x JST PHR-3 connector (cable included) S0 pulse counter compatible Provides wires: <ul style="list-style-type: none"> <li>Cross-section/gauge: 0.2 mm<sup>2</sup> (24 AWG)</li> <li>Length: 12 cm / 4.7"</li> <li>Colours: 2 x binary inputs 1 and 2 (white), 1 x GND (black)</li> </ul>
<b>USB port</b>	1 x USB Type C, USB 2.0 compatible
<b>Temperature and humidity sensor</b>	<ul style="list-style-type: none"> <li>Humidity: 5–100% RH (accuracy: ±10 %)</li> <li>Temperature: 0 to 60 °C / 32 to 140 °F (Accuracy: ±5 %)</li> </ul>
<b>Buttons</b>	1 x Push button
<b>Operational temperature</b>	0 to 60 °C / 32 to 140 °F
<b>Operational humidity</b>	5 to 95% relative humidity, non-condensing
<b>Insulation between communication connections</b>	1000 V DC
<b>Protection class</b>	IP20 (IEC 60529)
<b>LED indicator</b>	1 x external LED for device and KNX programming status

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