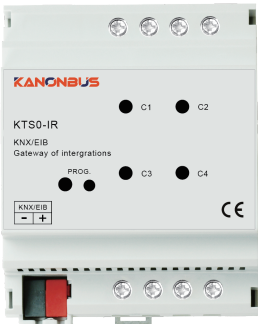


# KNX Infrared Conversion Gateway

## User Manual

KTS0-IR



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### Safety instructions

- Before installation, please read user manual carefully and observe relevant standards, directives, regulations and instructions.
- Electrical equipment must be installed and programmed by qualified technicians only.
- This device is manufactured according to the relevant technical specifications and have CE.
- For more information of this product, please contact the technical engineer of manufacturer.
- Users are not permitted to alter and maintain the product without the authorization of manufacturer.
- Failure to observe the instructions may cause damage to the device and result in fire or other hazards.

### Product Overview

The KTS0-IR is a gateway device that complies with the KNX technical standard. It can convert KNX bus signals into infrared signals and has the functions of infrared signal learning and transmission. It supports adaptive carrier learning, with a frequency range of 20KHz-75KHz, and can be adapted to the vast majority of infrared-controlled devices on the market, such as televisions, air conditioners, home theaters, power amplifiers, etc. The KTS0-IR is a highly integrated and ultra-low-power infrared learning gateway. It uses a high-performance, ultra-low-power 32-bit microprocessor, which can learn different infrared codes, automatically detect the carrier frequency, and has a high learning success rate. The KTS0-IR can both learn and transmit infrared signals through ETS, and can also use the host computer software to learn and transmit infrared signals via the RS485 interface.

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### Product Features

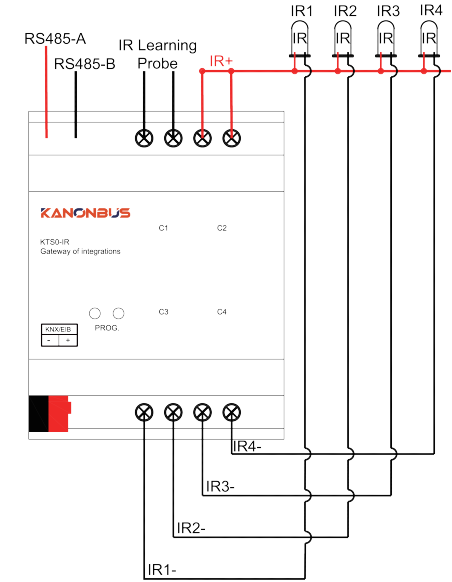
- The KTS0-IR is a gateway device that complies with the KNX technical standard. It can convert KNX bus signals into infrared signals and has the functions of infrared signal learning and transmission. It supports adaptive carrier learning, with a frequency range of 20KHz-75KHz, and can be adapted to the vast majority of infrared-controlled devices on the market, such as televisions, air conditioners, home theaters, power amplifiers, etc. The KTS0-IR is a highly integrated and ultra-low-power infrared learning gateway. It uses a high-performance, ultra-low-power 32-bit microprocessor, which can learn different infrared codes, automatically detect the carrier frequency, and has a high learning success rate.
- The KTS0-IR can both learn and transmit infrared signals through ETS, and can also use the host computer software to learn and transmit infrared signals via the RS485 interface.

### Programming instructions

1. Select the corresponding product database and import it into ETS.
2. Add the device to the project created in ETS.
3. Press the programming button of the device, and download its physical address through ETS. After the download is completed, the indicator lights of the programming button and the lens will turn off.
4. Open the device database. After setting its parameters and associating the corresponding group objects, perform the application download.
5. After changing the physical address of the device, repeat "Step 3".
6. After modifying the parameter settings or re - associating the "group objects", repeat "Step 4" to implement new functions.

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### Product Wiring



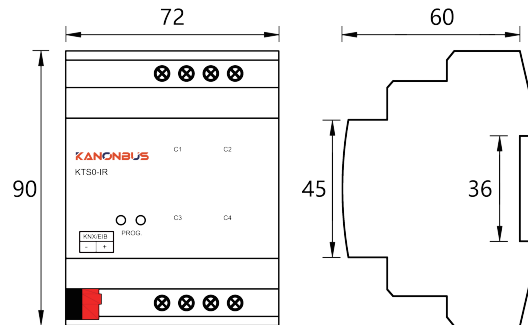
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### Product parameters

Parameters	Types	KTS0-IR
<b>Power</b>		
Power Supply		KNX Power 21V~30V DC
Transmission Media		KNX TP
Total rated current		≤10mA
<b>Product Info</b>		
Dimensions		70mm×90mm×60mm
Type of protection		IP20
Operation		0°C~70°C
Storage		-25°C ~70°C
Installation method		Rail-mounted installation
Programming mode		S-mode
<b>Port information</b>		
Infrared learning port		1 channel
Infrared output port		4 channel
Host computer debugging interface		1×RS485

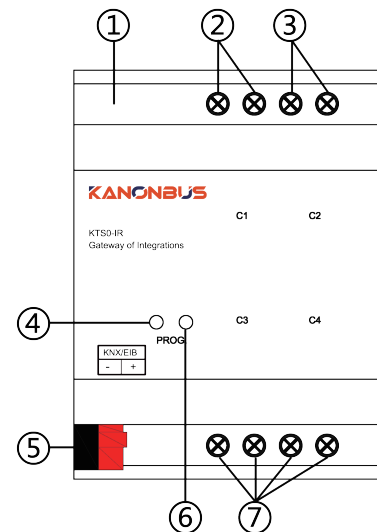
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### Product dimensions



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### Operating instructions



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### Operating instructions

- ① RS485 host computer debugging interface;
- ② Infrared learning probe;
- ③ Infrared channel common terminal IR+ terminal;
- ④ KNX programming button indicator light. When the programming button is pressed, this indicator light will turn red. After the physical address is successfully downloaded, it will automatically go out. Additionally, this indicator light can also be turned on or off via the ETS software;
- ⑤ KNX bus terminal, which is used to connect to the KNX system;
- ⑥ Programming button. Press it to write the physical address for the device;
- ⑦ Four-channel infrared channel terminal IR- terminal.

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