

# KNX Serial Gateway

## User Manual

KTS0-MINI-485



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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 KNX Serial Gateway KTS0-MINI-485 is a KNX-serial conversion device that complies with the KNX technical standard. It can interface with third-party RS485 devices, enabling two-way signal transmission between the RS485 devices and the KNX bus. The device has a built-in BCU (Bus Coupling Unit). Through ETS programming, the control codes of the serial devices can be converted into KNX bus commands. The KTS0-MINI-485 has 23 groups of commands, with each group of commands consisting of 2 data frames. It supports both hexadecimal and ASCII code commands, and can control devices such as multimedia devices and security devices that support RS485 serial port commands, realizing the integration of smart home systems.

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### Product Features

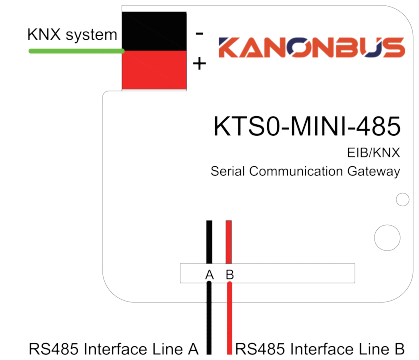
- Powered by the KNX bus.
- The setting range of the serial port data baud rate is from 1200 bps to 115200 bps.
- The serial port parity attribute can be set to odd parity, even parity or no parity.
- The length of the serial port data frame can be set.
- The same frame header and frame tail (each 2 bytes) can be set for the serial port data frame, making the length of a single data frame reach 12 bytes.
- The data frame supports two - way communication between KNX and RS485.
- It supports both hexadecimal and ASCII code commands (which need to be converted to decimal).
- It supports 1 - bit and 1 - byte KNX commands.
- Programming and debugging are carried out using ETS3/4/5.

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### 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.

### Product Wiring



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### Product parameters

### Product dimensions

### Operating instructions

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Parameters	Types	KTS0-MINI-485
<b>Power</b>		
Power Supply		KNX Power 21V~30V DC
Transmission Media		KNX TP
Total rated current		≤10mA
<b>Product Info</b>		
Dimensions		48mm×46mm×12mm
Type of protection		IP20
Operation		0°C~70°C
Storage		-25°C ~70°C
Installation method		Embedded hidden installation
Programming mode		S-mode
<b>Interface</b>		
KNX		red and black terminal
RS485		Line A/Line B



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- ① KNX bus terminal;
- ② KNX programming button indicator light. After pressing the programming button, this indicator light turns red. It will automatically turn off after the physical address is downloaded. It can also be turned on/off via the ETS software.
- ③ Programming button. Press it to write the physical address for the device.
- ④ RS485 serial device connection cable: Please make the connection by referring to the "KTS0 - MINI - 485 wiring diagram".

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