

Multi-mode fusion gateway  
Gateway  
User Manual

TSE101  
TSE101-XX

\* XX represents KNX TP, RS485, HBS for direct air-conditioning connection, DALI, or SCS



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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.

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Product Features

Renovation "Magic Tool":  
The product is specially designed for renovation projects. The standard version can realize system integration with only power supply. It features multi-mode capabilities: the standard version has built-in Zigbee and WiFi, and also supports a wired Ethernet port. The expanded version further supports wired interfaces such as RS485/HBS/DALI, which is highly beneficial for renovation projects.

"Unlimited Integration" = Wired + Wireless:  
Unlimited integration of wireless and wired ecosystems. The wireless ecosystem supports wireless products from brands like Tuya, Yeelight, Xiaomi, Legrand, Schneider, and ABB. The wired ecosystem supports systems such as KNX TP, RS485, HBS for direct air-conditioning connection, DALI, and SCS.

"True Bidirectional" Perfect Integration:  
The gateway has built-in integration capabilities. There is no need to create automation through wireless platforms; it can directly and perfectly integrate various types of data (digital quantities/analog quantities, etc.). It can submit wired products (e.g., air conditioners, fresh air systems, DALI, KNX devices) to the Tuya platform for management, and also submit wireless products (e.g., wireless panels, wireless sensors, wireless curtain motors) to wired systems for control.

"Purely Local":  
External networks or cloud platforms are only required during debugging. All data interaction is completely local during operation, ensuring stability and reliability.

Simple Programming and Debugging:  
With full graphical configuration, debugging can be completed via a mobile phone interface. It enables one-click automatic conversion of all data from wireless and wired ecosystems.

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Product Overview

The TSE101 Series is a multi-mode fusion gateway and a renovation magic tool that integrates both wireless and wired multi-modes. The wireless ecosystem supports Tuya, Yeelight, Xiaomi, Legrand, Schneider, ABB, etc.; the wired system supports KNX TP, RS485, HBS for direct air-conditioning connection, DALI, and SCS. It is suitable for wireless renovation of wired systems and wired expansion of wireless systems.

TSE101:  
The standard version gateway comes with Zigbee, WiFi, and an RJ45 Ethernet port. It can convert wireless system devices such as Tuya into KNX IP and support up to 100 wireless sub-devices. Wired sub-devices are not supported.

TSE101-XX:  
The professional version gateway is equipped with Zigbee, WiFi, an RJ45 Ethernet port, and a built-in wired interface XX. The product is typically used to integrate wired devices into wireless systems, supporting up to 100 wireless sub-devices and 50 wired sub-devices. (XX represents KNX TP, RS485, HBS for direct air-conditioning connection, DALI, or SCS)

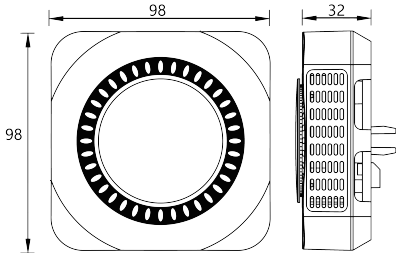
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Product parameters

Parameter	Types	TSE101	TSE101-XX
Product Info			
Dimensions	W:98mm×H:98mm×T:32mm		
Power Supply	24V DC		
Type of protection	IP20		
Operation	0°C~70°C		
Storage	-25°C~70°C		
Installation method	Rail-mounted installation		
LED indicator light			
RUN	Operating indicator light		
Interface			
Zigbee	√	√	
RJ45	√	√	
WIFI	√	√	
Dedicated wired interface XX	×	√	

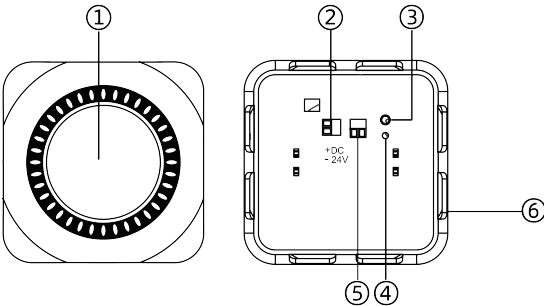
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Product dimensions



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Operating instructions



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Operating instructions

- ① Front of the gateway
- ② Power interface: Uses a DC 24V wide-voltage power supply
- ③ Reset button: Long press for 6 seconds to initialize the system
- ④ Running indicator light:  
Slow blinking (1.5-second interval) in wireless network configuration state;  
Steady on after successful system network configuration;  
Fast blinking (0.5-second interval) during system reset.
- ⑤ XX interface (available on TSE101-XX)
- ⑥ RJ45 Ethernet port

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