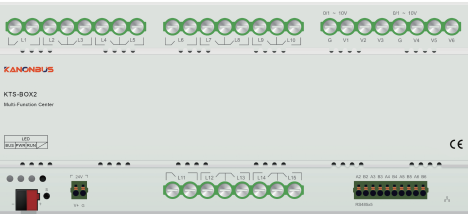


Multifunctional Control Center
User Manual

KTS-BOX2
KTS-BOX2-P



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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 KTS - BOX2/KTS - BOX2 - P multifunctional control center integrates the KTS solution with multiple control units (relay output, 0 - 10V dimming, RS485), and can be applied in projects such as hotel rooms, small - sized apartments, and meeting rooms. Through the hardware interfaces of the KTS platform, it can control devices like air conditioners, curtains, underfloor heating, and background music systems. By combining the control units and the multifunctional gateway into one, it becomes a true control center.

The KTS - BOX2/KTS - BOX2 - P multifunctional control center adopts a rail - mounted installation method. It has rich hardware interfaces and powerful computing and processing capabilities. It can integrate and mutually convert various popular communication protocols (such as KNX, various communication protocols based on RS485 and RS232, TCP/IP, UDP protocol, BACnet/IP protocol, Modbus RTU/TCP, etc.), and can be upgraded and custom - expanded according to actual needs to achieve a truly intelligent solution.

For the KTS - BOX2 - P multifunctional control center with a built - in choke, after connecting the host gateway to a DC power supply (equipped with a DC power output of 30V/1A), the red and black terminals of the host gateway can provide a standard power output for the KNX bus system, with an output current of up to 500mA.

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Product Features

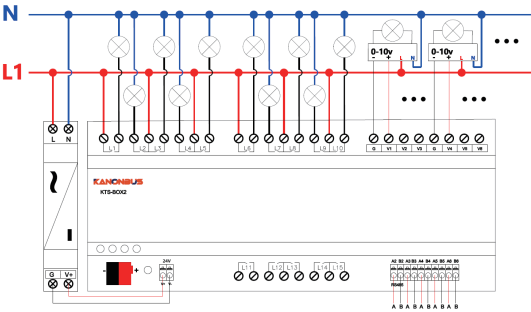
- It is a standard DIN35mm rail-mounted modular product with a compact structure and powerful functions.
- It is programming-free. You can use it with the default factory settings, or change the default settings and reprogram it.
- Relay output: It is equipped with three 16A relays for high-power loads such as card - operated power switches, circuit breakers/sockets.
- Relay output: It has twelve 10A relays for loads such as lights.
- Dimming output: It features six 0 - 10V dimming outputs, supporting both sourcing current and sinking current, and is compatible with all mainstream 0/1 - 10V dimming ballasts on the market.
- RS485: It has five independent serial communication interfaces, supporting both the standard RS485 protocol (e.g., Modbus RTU Client/Slave) and customized modules of Zhengjue protocol library. It can connect five types of serial terminals simultaneously, such as curtain motors with 485 protocol, central air conditioners with 485 protocol, and underfloor heating systems with 485 protocol.
- RJ45: It has one RJ45 interface, supporting multiple network transmission control functions and protocols, such as local/remote control via APP, cloud - to - cloud voice control function, TCP/IP, Modbus TCP, and BACnet IP. It allows multiple functions to be used simultaneously.
- KNX: It has one KNX TP interface, which can either be connected to the KNX system or interfaced with other control systems, or used independently. It is convenient, flexible, and easy to expand.
- It can be integrated with systems such as air conditioning, underfloor heating, fresh air, background music, home theater, conference, central control, security, and building control systems.
- It has built - in logic functions and timing functions.
- It supports remote debugging and configuration.
- It has a built - in KNX IP ROUTER function and integrates a filter table function.
- It is applicable to systems such as iOS, Android, and Windows.
- The KTS - BOX2 - P has a built - in choke. After connecting to a 30V/1A DC power supply, it can be used as a power source for the KNX system.

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Product Configuration

- 1)This product adopts the web page programming method. Please use browsers that are not based on the IE kernel for function configuration, such as Firefox, Chrome, etc.
- 2)Login address: 192.168.1.232
- 3)Username: admin
- 4)Password: 123

Product Wiring



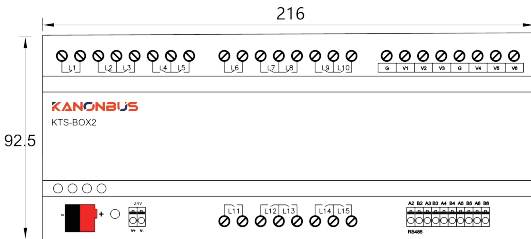
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Product parameters

Parameter	Types		KTS-BOX2	KTS-BOX2-P
Product Info				
Dimensions (WxHxT)	216mm×92.5mm×60mm			
Power Supply	24V DC		30V DC	
Type of protection	IP20			
Operation	0°C~70°C			
Storage	-25°C~70°C			
Installation method	Rail-mounted installation			
Product port				
16A relay output	3			
10A relay output	12			
0-10V dimming output	6			
RS485	5			
RJ45	1			
KNX TP	1			
LED indicator light				
POWER	Working indicator light, orange			
RUN	Operating indicator light, green			
RUN	KNX system indicator light, red			

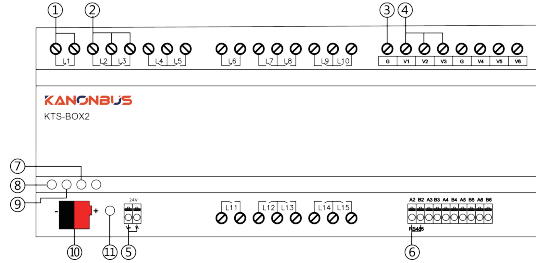
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Product dimensions



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Operating instructions



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Operating instructions

- 1) 16A relay output: L1, L6, L11
- 2) 10A relay output. The middle terminal is the common terminal for powering the load.
- 3) Negative pole of the 0 - 10V dimming ballast for the load
- 4) Positive pole of the 0 - 10V dimming ballast for the load
- 5) Power supply terminal for KTS - BOX: Select a 24V DC power supply. V+ is the positive pole and G is the negative pole.
- 6) RS485 control interface
- 7) RUN indicator light: After startup is completed, it stays constantly green. When sending and receiving data, it flashes rapidly in green.
- 8) KNX indicator light: After being connected to the KNX system, it stays constantly red.
- 9) POWER indicator light: When the power is turned on, it stays constantly orange.
- 10) KNX bus terminal, used to connect to the KNX system
- 11) Master control/reset button: A short press turns on/off all relays and the 0 - 10V output. Press and hold this button for 6 seconds. When the RUN indicator light flashes rapidly and then stays on again, the device will be restored to its factory settings (including host IP network parameters, serial port settings, and startup mode).

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