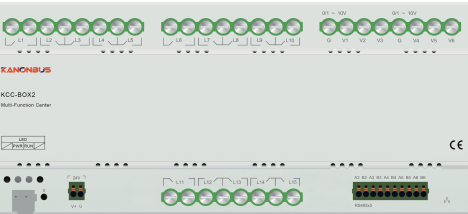


Multifunctional Control Center
User Manual

KCC-BOX2



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 KCC-BOX2 multifunctional control center integrates multiple control units (relay output, 0-10V dimming, RS485), and can be applied to projects such as hotel guest rooms, small-sized apartments, conference rooms, etc. Through the hardware interfaces of the KCC platform, it controls devices such as air conditioners, curtains, underfloor heating, and background music. It combines the control unit and the multifunctional gateway into one, making it a true control center. The KCC-BOX2 multifunctional control center adopts the rail-mounted installation method. With industrial-grade chips and design, it is stable and reliable. At the same time, it has rich hardware interfaces and powerful computing and processing capabilities. It can integrate and mutually convert various popular communication protocols (various communication protocols based on RS485 and RS232, TCP/IP, UDP protocols, BACnet/IP protocol, Modbus RTU/TCP, etc.), and can be upgraded, customized and expanded according to actual needs to achieve a truly intelligent

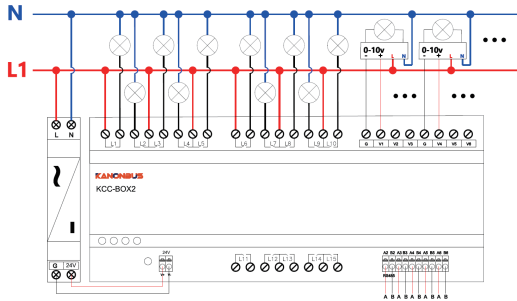
Product Features

- It is a standard DIN35mm rail-mounted modular product with a compact structure and powerful functions.
- No programming is required. It can be used with the default factory settings, and the default settings can also be changed for reprogramming.
- Relay output: It has three 16A relays, which are used for high-power consumption loads such as card access for power supply, circuit breakers/sockets, etc.
- Relay output: It has twelve 10A relays, which are used for loads such as lighting.
- Dimming output: It has six 0-10V dimming outputs, and supports both sink current and source current at the same time. It is compatible with all mainstream 0/1-10V dimming ballasts on the market.
- RS485: It has five independent serial communication interfaces, which support both the standard RS485 protocol (such as Modbus RTU Client/Slave) and the customized modules of Zhengjue protocol library. It can connect 5 kinds of serial port terminals simultaneously, such as 485 protocol curtain motors, 485 protocol central air conditioners, 485 protocol underfloor heating and other devices.
- RJ45: It has one RJ45 interface, which supports a variety of network transmission control functions and protocols, such as APP local/remote control, cloud-to-cloud voice control functions, TCP/IP, Modbus TCP, BACnet IP, and supports the simultaneous use of multiple functions.
- It can be integrated with systems such as air conditioners, underfloor heating, fresh air systems, background music systems, home theaters, conference systems, central control systems, security systems, and building control systems.
- Built-in logic function/timing function.
- Support for remote debugging and configuration.
- Built-in IP ROUTER function and integrated filter table function.
- Suitable for iOS/Android/Windows and other systems.

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

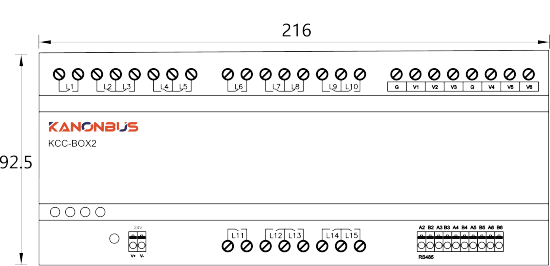
Product Wiring



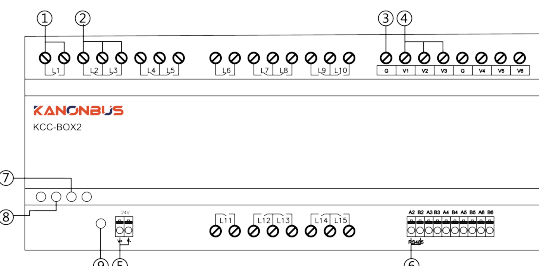
Product parameters

Parameter	Types	KCC-BOX2
Product Info		
Dimensions (WxHxT)		216mm×92.5mm×60mm
Power Supply		24V 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

Product dimensions



Operating instructions



Operating instructions

- 1) 16A relay output:L1,L6,L11
- 2) 10A relay output. The middle terminal is the common power supply terminal for the load.
- 3) Negative pole of the 0-10V dimming ballast of the load
- 4) Positive pole of the 0-10V dimming ballast of the load
- 5) Power supply terminal of 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 the startup is completed, it stays green and on steadily. When sending and receiving data, it flashes rapidly in green.
- 8) POWER indicator light: When the power is turned on, it stays orange and on steadily.
- 9) Master control/reset button: A short press turns on/off all the relays and the 0-10V output in a unified way. 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 the factory settings (host IP network parameters, serial port settings and startup mode).

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