EasyCtrl®

D series key panel

Product series	Product name	Product model
D Series smart panel(plastic)	Smart 2 key panel	YC.KP.02D.485
	Smart 4 key panel	YC.KP.04D.485
	Smart 6 key panel	YC.KP.06D.485
	Smart 8 key panel	YC.KP.08D.485

Release : Jan 20, 2024
Version : V1.1

Figure 2. Smart 4 key panel   Figure 4. Smart 8 key panel

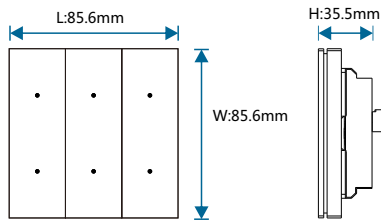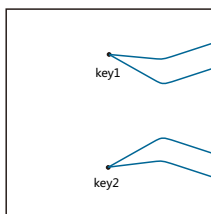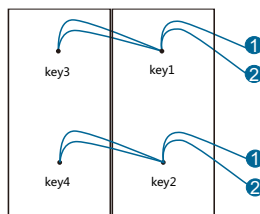Figure 1. Smart 2 key panel   Figure 3. Smart 6 key panel

L:85.6mm   H:35.5mm   W:85.6mm

Figure 5. Dimensional Drawing - Front View   Figure 6. Dimensional Drawing -Sideview

key1   key2
Figure 7. Smart 2 key panel

key3   key1
key4   key2
Figure 8. Smart 4 key panel

key5   key3   key1
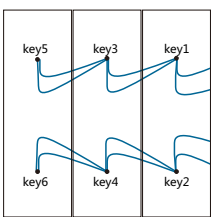key6   key4   key2
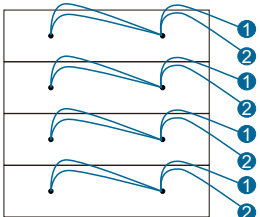Figure 9. Smart 6 key panel

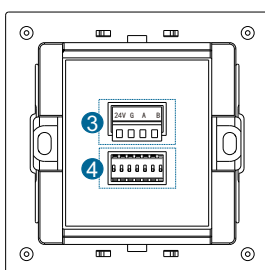Figure 10. Smart 8 key panel

Figure 11. Back view

Product Overview

Smart 2/4/6/8 key panel(see Figure 1 - 4) , serves as a system control unit , typically installed in the local, to achieve single control or scene control of lighting switch, dimming, curtain opening and closing, music and other devices.

Function Description

- Standard 86 bottom box installation, support multiple panel seamless cascading.
- Panel appearance color, black, gray, gold three colors are available.
- Provide 2/4/6/8 programmable keys, icons can be carved or text screen printing.
- Can trigger short press, short press release, long press and long press release button to control lighting, curtains, scene functions, etc.
- The sensing interface is optocoupler isolation, high voltage overcurrent protection, with strong anti-interference and reliability.
- Comes with panel backlight to manually adjust function keys to adapt to different scenarios.
- Each key with background color LED and activation color LED, color can be customized.
- Supports online firmware updates.
- Supports YC-BUS communication.

Precautions

- Use CAT5E or RVV4*0.75 four-core wire for bus wiring.
- Do not connect the AB signal of the bus interface incorrectly, otherwise the bus signal will be abnormal.

Product Information

Product Dimensions: See Figures 5 and 6
Installation opening size, see Figure 14
Product Information: See Figure 7 -Figure 11

1. The key, key indicator and bus are abnormal:
- Key trigger : Trigger conditions, can be set by software, short press, release, long press, when binding dimming, short press for switch, long press for dimming.
- Indicator light: indicator light can be switched, dimming, timing, grouping, binding to synchronous, reverse display, no synchronous state, set by software. The indicator is off by default, When the key is pressed, the current key indicator will flash for a while, and the backlight will also light up (the backlight will go out after 30s). Note: The color of key indicator is white.
- Bus anomaly: When the bus is abnormal, the panel key indicator 1 will keep flashing. At this time, it is necessary to eliminate problems such as line problems and address duplication.
2. Standby backlight setting and brightness
- Brightness: backlight color is orange, the default is 50% brightness.
- Standby backlight Settings: Note: smart 2 key panel is key 1 and key2,smart 4, 6, 8 key panel is key3 and key4. Example: smart 4 key and smart 6 key panels: Press key 3 and 4 at the same time, and the backlight will flashUnder, press key 4 to increase brightness, press key 3 to decrease brightness. After adjusting to the desired backlight standby effect, press button 3 and 4 again at the same time, and the backlight light flashes again. Note: this parameter can only be set by hardware.
3. Bus interface: 24V, G, A, B, and other bus interface cascade, do not connect the wrong (see Figure 13).
4. Address setting: the default address is 01, the address is set to 01-63 (decimal), using 6-bit dial, binary dial mode, setting mode (see Figure 12).

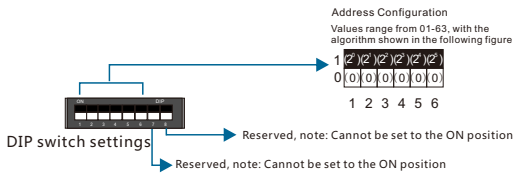# Product Installation

See Figures 13-15
- Step 1. Disassembly port, use a small knife to pry the gap of the disassembly port can be removed, 4 disassembly port, same as above.
- Step 2. Mounting port, mounting screw with M4*25, install to the appropriate position.
- Step 3. During installation, check whether the panel is installed in the wrong direction.
- Step 4. After installation, remove the key cover, align it with the hole, and install it properly.

Safety Warning ⚠ WARNING

- Tightening torque should not exceed 0.4 Nm.
- Installation location:Wall or distribution box
- Do not connect the RS485 BUS interface incorrectly, as it may damage the equipment.
- The RS485 BUS interface must not be connected to AC power; otherwise, it will damage all devices on the bus.
- Ensure a good ventilation environment.
- Do not expose to rain, contact with other liquids, or corrosive gases.

Packing List

- Smart key panel*1/User Manual*1/Certificate of Conformity*1

DIP switch settings

Reserved, note: Cannot be set to the ON position

Reserved, note: Cannot be set to the ON position

Figure 12. Address DIP Switch Table

bus signal input   bus signal output
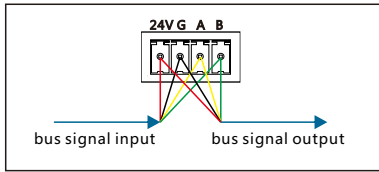
Figure 13. Description of bus interface wiring

opening size (L):69mm

Mounting aperture:60mm

opening size (L):58mm
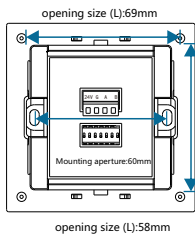
Figure 14.Installation hole position diagram

Panel cover   Panel base   base

Mounting port, mounting screw with M4*25
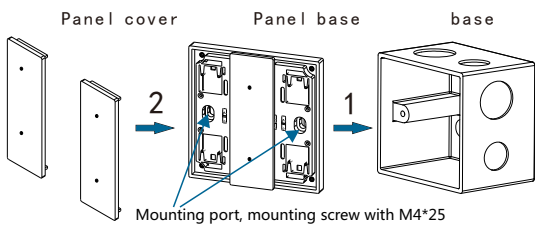
Figure 15. Panel   Figure 16. Mounting port   Figure 17. Mounting direction

Technical Parameters

Basic Parameters

Operating Voltage	24VDC±5%
Rated Power Consumption	YC.KP.02D ≤1W YC.KP.04D ≤1.1W YC.KP.06D ≤1.1W YC.KP.08D ≤1.2W
Key Indicator Light	white light
Backlight	orange light
Number Of Keys	two/four/six/eight keys
Key Category	reset touch key
Bus Interface	RS485 bus interface*1
Protection	IP20

External Environment

Operating Temperature	0℃~45℃
Operating Relative Humidity	≤93%
Storage Temperature	-20℃~55℃
Storage Relative Humidity	≤93%

Product Specifications

Dimensions (L*W*H)	85.6mm*85.6mm*35.5mm
Net Weight(Two/Four/Six/Eight Key)	≤90gpcs/≤90gpcs/≤90gpcs/95gpcs
Enclosure Material	plastic
Installation Method	standard 86 bottom box mounting (see Figure 15-17)
Opening Size (L * W)	69mm*58mm，bottom box depth is greater than 40mm(see Figure 14)

System Diagram

AC220V INPUT

Third-party Central Control Host
(Supported/Accessible)

RVV4*0.75   RVV4*0.75   RVV4*0.75   RVV4*0.75
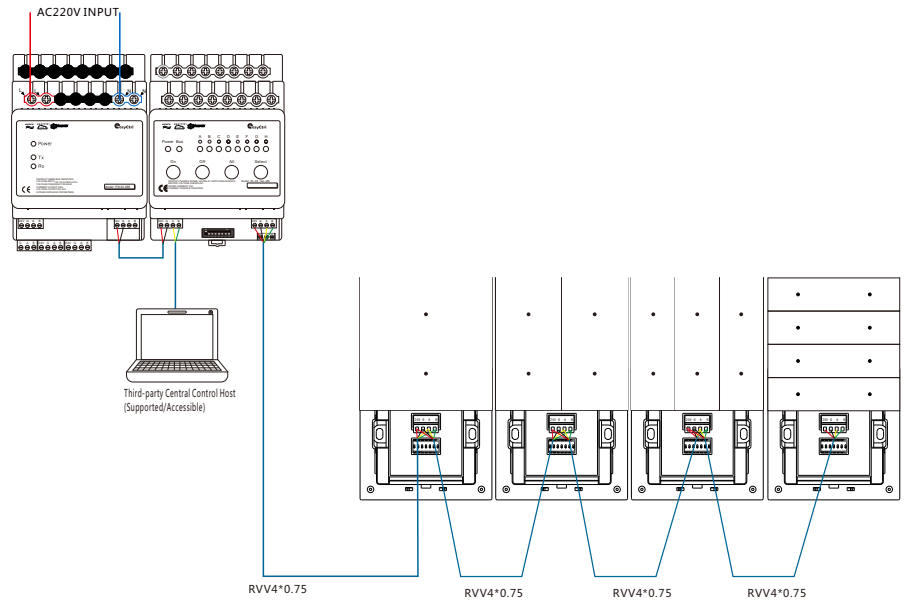
Bus Specification

Bus interface	4-core wire : RVV4*0.75	UTP : CAT5/CAT5E
24V	RED	BROWN WHITE/BROWN
GND	BLACK	BLUE WHITE/BLUE
A	YELLOW	ORANGE WHITE/GREEN WHITE
B	GREEN	ORANGE/GREEN

Technical support

Service Hotline: 86-18029750069

working hours: 9:00-12:00,13:00-18:00,From Monday to Friday)

Email:ceshi@easyctrlgz.com

website: http://www.easyctrlgz.com