

D series key panel

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

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

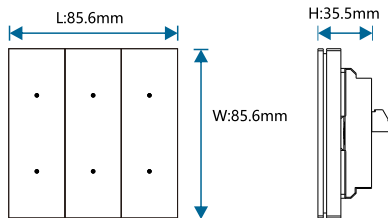


Figure 5. Dimensional Drawing - Front View

Figure 6. Dimensional Drawing -Sideview

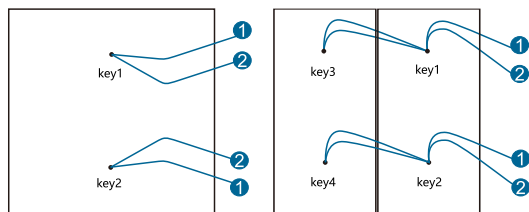


Figure 7. Smart 2 key panel

Figure 8. Smart 4 key panel

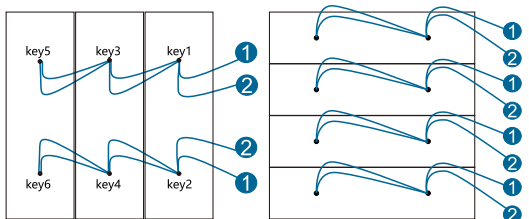


Figure 9. Smart 6 key panel

Figure 10. Smart 8 key panel

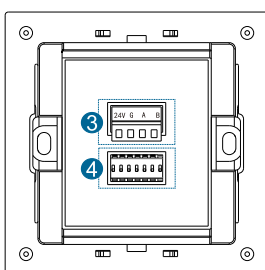


Figure 11. Back view

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 and Bus network disconnection alarm function.
- 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.
- After accessing the bus, the panel address cannot be found. Determine whether the address is duplicated. Dial 7 and 8 to be in the OFF position.

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 flash. Under, 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

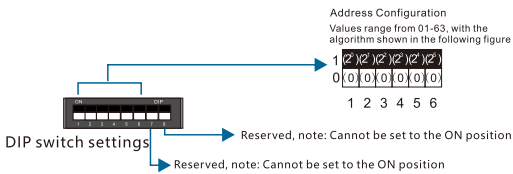
- Step 1. Disassembly port, use a small knife to pry the gap of the disassembly port can be removed, 4 disassembly port, same as above.
- Step 2. Mounting port, mounting screw with M4*25, install to the appropriate position.
- Step 3. During installation, check whether the panel is installed in the wrong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

Safety Warning

- Tightening torque should not exceed 0.4 Nm.
- Installation location: Wall or distribution box
- Do not connect the YC-BUS interface incorrectly, as it may damage the equipment.
- The YC-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



ID SET	1	2	3	4	5	6	7	8	ON	OFF
ID01	ID02	ID03	ID04	ID05	ID06	ID07	ID08			
ID09	ID10	ID11	ID12	ID13	ID14	ID15	ID16			
ID17	ID18	ID19	ID20	ID21	ID22	ID23	ID24			
ID25	ID26	ID27	ID28	ID29	ID30	ID31	ID32			
ID33	ID34	ID35	ID36	ID37	ID38	ID39	ID40			
ID41	ID42	ID43	ID44	ID45	ID46	ID47	ID48			
ID49	ID50	ID51	ID52	ID53	ID54	ID55	ID56			
ID57	ID58	ID59	ID60	ID61	ID62	ID63				

Figure 12. Address DIP Switch Table

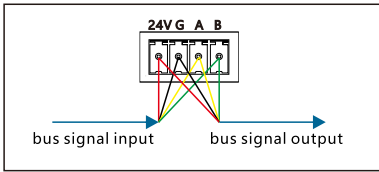


Figure 13. Description of bus interface wiring

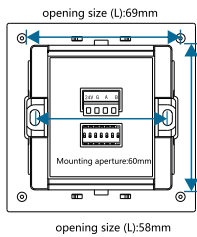


Figure 14. Installation hole position diagram

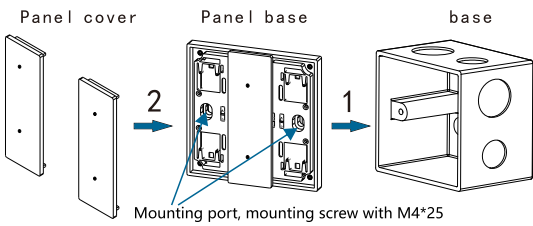


Figure 15. Panel Figure 16. Mounting port Figure 17. Mounting direction

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	bus interface*1
Protection	IP20

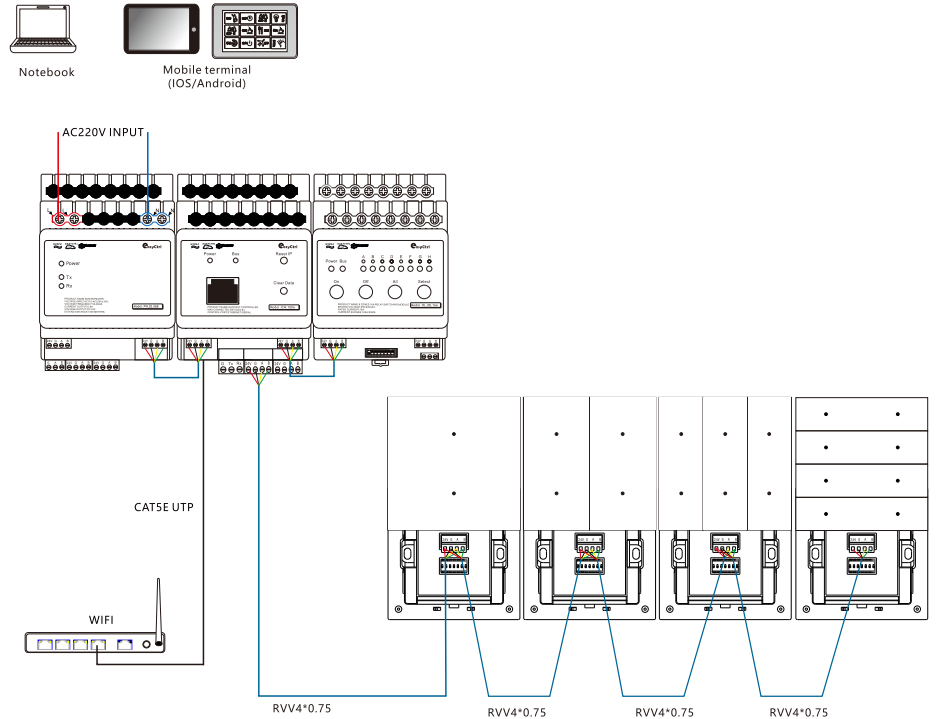
External Environment

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



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

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