

CF-TSWP06R-EA

Android Touch Screen Control Panel (Wall-in)



User Manual

VER 1.1

Thank you for purchasing this product

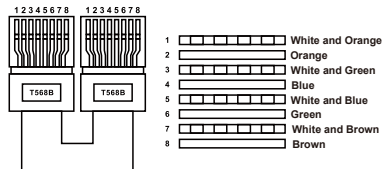
For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Caution

The network cable connection method required for this product is direct connection. Please do not cross connect.



Direct Interconnection Method

Table of Contents

1. Introduction.....	1
2. Features.....	1
3. Package Contents.....	1
4. Specifications.....	2
5. Operation Controls and Functions.....	3
6. Mounting Instruction.....	5
7. Application Example.....	7

1. Introduction

The programmable touch panel is designed to be utilized in the sectors of automated office system, multi-media room and smart home. With a programmable interactive user interface over configuration protocols, the integrated system provides intelligent networking service. The wall-in touch panel, with standard 86 box design, is equipped with a capacitive touch screen with a resolution of 1440*720, and it supports one LAN port, one RS-232 serial port and one RS-485 serial port. It is used in a diverse range of installations and applications across industries including multi-media conference rooms, multi-functional halls, training centers, show room, broadcasting studios and industrial automation.

2. Features

- ☆ ARM Cortex-A55 architecture 1.8Ghz main frequency
- ☆ Android 11.0 system, 4GB DDR4 RAM, 32GB EMMC FLASH
- ☆ 1440*720 resolution, capacitive touch screen, wall-in screen design (86 wall box)
- ☆ Compliant with industry standard network communication protocols (Http/TCP IP/UDP/Websocket)
- ☆ Support 1x 100M network port, the highest rate up to 100M/bps
- ☆ Support 1x RS-232 port and 1x RS-485 port, with a configurable baud rate of 2400-115200
- ☆ Support 1x programmable knob
- ☆ With optional wireless module (Wi-Fi/Bluetooth)
- ☆ With optional 4x array microphone input, and stereo speaker output
- ☆ With optional light and distance sensor
- ☆ With optional temperature and humidity sensor
- ☆ Dual power supply mode, supporting PoE or DC power supply
- ☆ Support factory reset

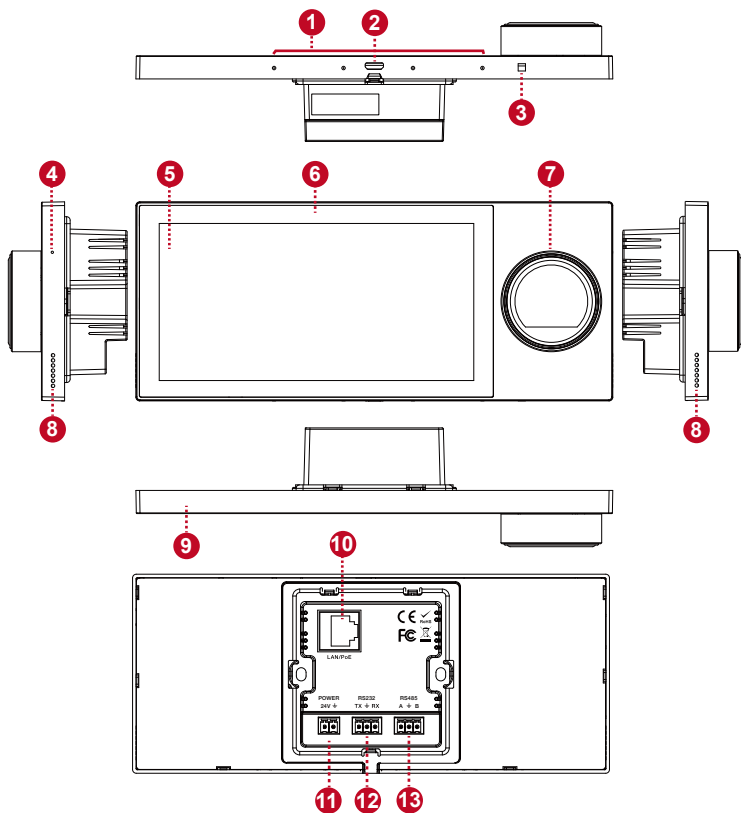
3. Package Contents

- ① 1x Programmable Touch Panel (Wall-in)
- ② 2x 3pin-3.81mm Phoenix Connector (male)
- ③ 1x 2pin-3.81mm Phoenix Connector (male)
- ④ 1x Wall Mounting Bracket (pre-installed on the touch panel)
- ⑤ 2x Bracket Fixing Screw
- ⑥ 1x User Manual

4. Specifications

Technical	
CPU	4-core ARM Cortex-A55 1.8GHz
Operation System	Android 11
RAM	4GB DDR4 RAM
Flash Memory	32GB EMMC FLASH
Resolution	1440*720
Touch Type	Capacitive Touch Screen
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
LAN/PoE	1x Standard 10M/100M Ethernet RJ45 port, supporting PoE function
DEBUG	1x Micro USB, for debugging or data transmission
RS-232	1x 3-pin Phoenix connector, for RS-232 serial data communication
RS-485	1x 3-pin Phoenix connector, for RS-485 serial data communication
POWER	1x Power port, DC 24V/1A power input port
Mechanical	
Housing Material	Front Panel / Rear Case — Plastic
Color	Touch Screen — Black; Front Panel — Grey; Rear Case — Black
Dimension	206mm (L) × 86mm (W) × 52mm (D)
Weight	321g
Power Supply	DC 24V/1A or PoE
Power Consumption	10W
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Operating Humidity	20% ~ 80% (relative humidity, non-condensing)
Storage Humidity	10% ~ 90% (relative humidity, non-condensing)

5. Operation Controls and Functions



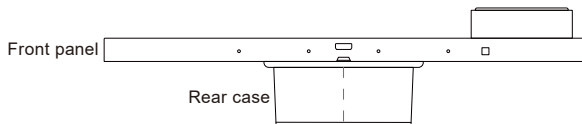
No.	Name	Function Description
1	Microphone	Four-array microphone ports (optional) for voice input.
2	DEBUG port	Micro USB port, used for debugging or data transmission.
3	Temperature & Humidity sensor	Environmental temperature and humidity detection (optional).
4	RESET button	<p>Reboot: After the device boots up, press and hold the RESET button for more than 1s less than 5s, then release it, the device will reboot. The device won't upload the user projects after rebooting.</p> <p>Reset: After the device boots up, press and hold the RESET button for more than 5s, then release it, the device will reset the user configuration information, the IP will be restored to the default settings (IP address: 192.168.0.101, subnet mask: 255.255.0.0), the login password of the management page will be initialized to "admin", the device time will be initialized to the automatic acquisition mode, but user projects won't be deleted by factory initialization.</p>
5	Touch Screen	Capacitive touch screen. The user control interface can be configured through the IDE tool.
6	Light & Distance sensor	Automatically adjust the brightness of the touch screen or light up the screen based on light and distance (optional).
7	Knob	Programmable knob, and the knob function can be configured through IDE.
8	Speakers	Dual speaker stereo output (optional).
9	Wi-Fi/ Bluetooth	Wireless communication function (optional), supporting Wi-Fi (2.4G + 5G) / Bluetooth (5.4).
10	LAN/PoE port	Standard 10M/100M Ethernet RJ45 port, supporting PoE function, with default auto-negotiated speed for device connection, projects uploading & downloading, network communication and debugging. By default, the DHCP function of the control panel is disabled, and the IP setting is as follows: IP address: 192.168.0.101, subnet mask: 255.255.0.0.
11	POWER port	The power input port (2-pin phoenix connector), used for connecting with external 24V DC power supply.
12	RS-232 port	Programmable RS-232 serial port, which is a 3-pin phoenix connector (male), compliant with RS232 communication protocol, and capable of configuring 8 baud rates in the range of 2400-115200bps. The pin-outs of the RS-232 port are PIN1 for TX, PIN2 for GND, and PIN3 for RX.

No.	Name	Function Description
13	RS-485 port	Programmable RS-485 serial port, which is a 3-pin phoenix connector (male), compliant with RS-485 communication protocol, and capable of configuring 8 baud rates in the range of 2400-115200bps. The pin-outs of the RS-485 port are PIN1 for A, PIN2 for GND, and PIN3 for B.

6. Mounting Instruction

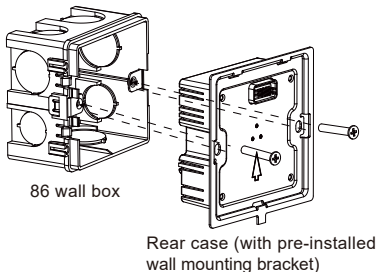
This wall-in touch panel can be mounted on a standard 86 wall box, the mounting steps are as follows.

Step 1: Use a straight screwdriver to separate the rear case from the front panel.

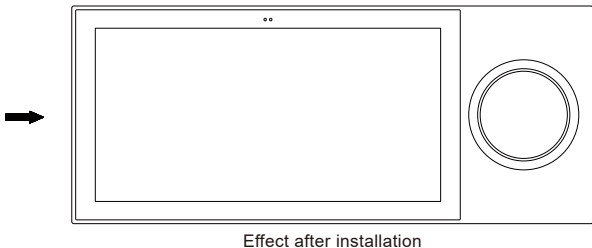
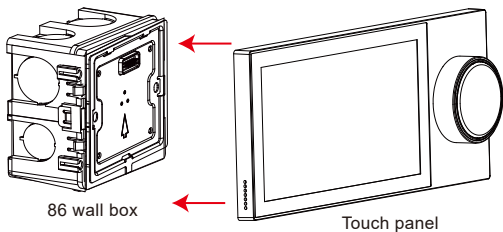


— — Insert a straight screwdriver into this position and lift it up from both sides to remove the rear case.

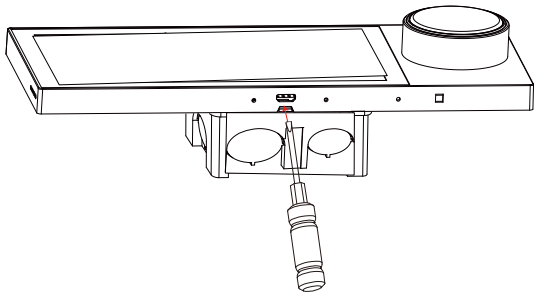
Step 2. Install the rear case (with pre-installed wall mounting bracket) onto the 86 wall box and fasten it with two screws.



Step 3: Align the back of the touch panel with the slots of the wall bracket and push it in. Press the edge of the touch panel to ensure that the buckles are in place, and the installation is complete.



To remove the mounted touch panel, insert a screwdriver into the hole indicated by the arrow and pry the front panel out of the rear case.



7. Application Example

