## Prestel WTCP-4-02

Programmable Touch Panel (Wall-in)



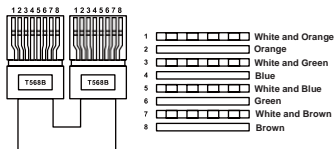**USER MANUAL**

## 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, lighting strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

## Caution

The product requires the use of UTP connectors. Please connect in direct interconnection method and do not cross connect.



| 1 | White and Orange |
| 2 | Orange |
| 3 | White and Green |
| 4 | Blue |
| 5 | White and Blue |
| 6 | Green |
| 7 | White and Brown |
| 8 | Brown |

**Direct Interconnection Method**

## Table of Contents

# 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 720*720, and it supports one RS-232 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 1.8 Ghz main frequency
☆ Android 11.0 system, 4GB DDR4 RAM, 32GB EMMC Flash
☆ 720*720 (1:1) resolution, standard 86 box wall-in design
☆ One machine with two modes, can be used as touch screen central control or user terminal
☆ Support one RS-232 serial communication port, which is capable of configuring 8 baud rates in the range of 2400-115200bps
☆ Support access to the host system management web page with a password
☆ Compliant with industry standard network communication protocols (TCP/IP, Http, UDP, Web socket)
☆ With 1 Gigabit network port, the highest rate up to 1G/bps
☆ Dual power supply mode, supporting POE or independent DC power supply
☆ Interface and function configuration via central control software
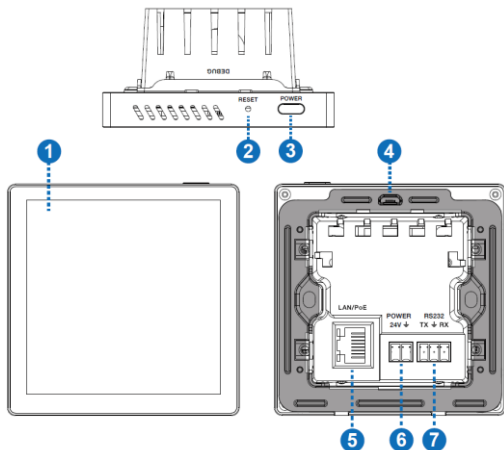☆ Support remote control, remote O&M, online upgrade
☆ Support factory reset

# 3. Package Contents

① 1x Programmable Touch Panel (Wall-in)
② 1x 3pin-3.81mm Phoenix Connectors (male)
③ 1x 24V/1A Multinational Power Supply (2pin-3.81mm Phoenix Connector)
④ 1x Wall Mounting Bracket
⑤ 2x Bracket Fixing Screw
⑥ 1x User Manual

## 4. Specifications

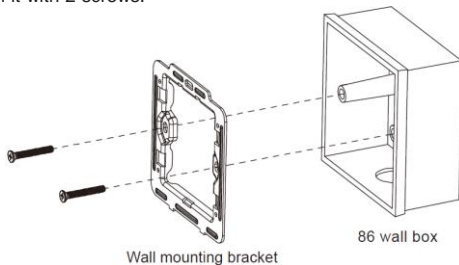| Technical | |
|---|---|
| CPU | ARM Cortex-A55 1.8GHz |
| Operation System | Android 11 |
| RAM | 4GB DDR4 RAM |
| Flash Memory | 32GB EMMC Flash |
| Resolution | 720*720 |
| Touch Type | Capacitive Touch Screen |
| ESD Protection | IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge) |
| **Connection** | |
| RS232 | 1x 3-pin Phoenix Connectors, for RS232 serial data communication |
| LAN/POE | 1x Standard 10M/100M/1000M Ethernet RJ45 port, supporting POE function |
| POWER | 1x 2-pin Phoenix Connectors, for power supply |
| DEBUG | 1x Micro USB, system debugging port |
| **Mechanical** | |
| Housing | Front Panel — Touch Screen; Rear Case — Plastic |
| Color | Front Panel — Black; Rear Case — Apple Gray |
| Dimension | 86mm (L) × 86mm (W) × 44mm (D) |
| Weight | 192g |
| Power Supply | 24V DC/1A or POE |
| Power Consumption | 5W |
| Operating Temperature | 0°C ~ 40°C / 32°F ~ 104°F |
| Storage Temperature | -4 ~ 140°F / -20 ~ 60°C |
| 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 | Touch Screen | Capacitive touch screen. The user control interface can be configured through the IDE tool. |
| 2 | RESET button | **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.<br>**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 automatic acquisition mode, but user projects won't be deleted by factory initialization. |

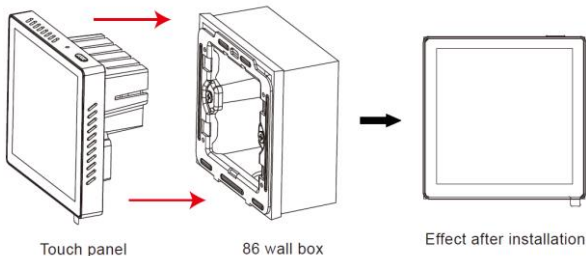| No. | Name | Function Description |
|-----|------|----------------------|
| 3 | POWER button | Used for screen off or wake-up. |
| 4 | USB port | Micro USB port. The reserved port for system debugging. |
| 5 | LAN/PoE port | Standard 10M/100M/1000M Ethernet RJ45 port with default auto-negotiated speed for device connection, projects uploading & downloading, network communication and debugging.<br>By default, the DHCP function of the control panel is disabled, and the IP setting is as follows:<br>IP address: 192.168.0.101, subnet mask: 255.255.0.0 |
| 6 | POWER port | The power input port (2-PIN phoenix connectors), used for connecting with external 24V DC power supply. |
| 7 | RS232 port | Programmable RS232 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.<br>The pin-outs of the RS232 port are PIN1 for TX, PIN2 for GND, and PIN3 for RX. |

## 6. Mounting Instruction

This wall-in touch panel can be mounted on a standard 86 wall box, the mounting steps are as follows.
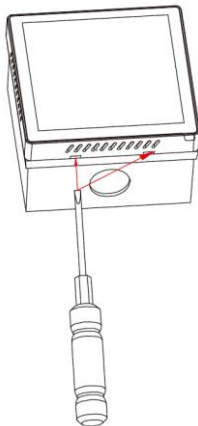**Step 1:** Install the included wall mounting bracket onto the 86 wall box and fasten it with 2 screws.



Wall mounting bracket

86 wall box

**Step 2:** Align the back of the touch panel with the slots of the wall bracket and push it in. Press the aluminum edge of the touch panel to ensure that the buckles are in place, and the installation is complete.



Touch panel      86 wall box      Effect after installation

To remove the mounted touch panel, insert a screwdriver into the two holes indicated by the arrows and pry the machine out of the bottom box.

# 7. Application Example