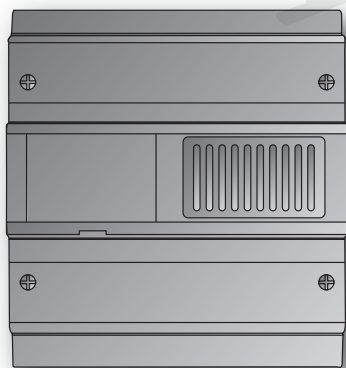# DT-TPC

Telephone converter

# User Manual

Please read this manual carefully before using the product and keep it safe for future use. We reserve the right to modify the specification in this manual at any time without notice.
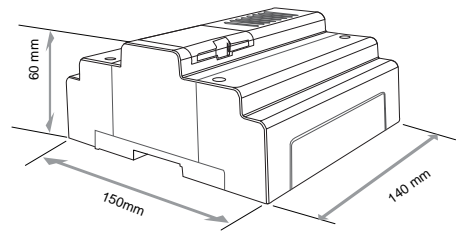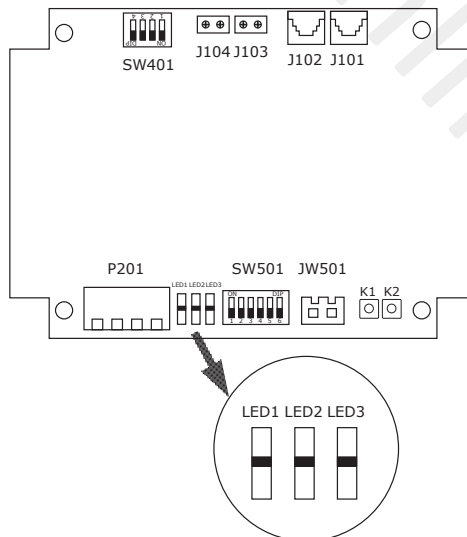
## About the TPC Unit

Description:

The TPC unit is a telephone converter designed for the Prestige 2 wire video entry system to divert calls from the door panel to a telephone or mobile phone, Standard or PBX telephone network. With the TPC unit, you can communicate with your visitor via your telephone or mobile phone and just like a remote control, you can communicate and allow access for your visitor

Features:

- Maximum of 3 telephone number can be set on the video monitor using the TPC function
- Divert Calls from monitor to telephone via TPC, the TPC is like a telephone, when setting the diversion function, the door panel calls the TPC first then diverts to the telephone number you have set
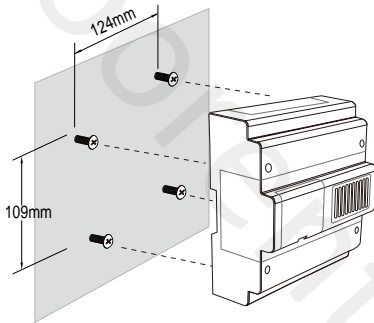- Application: House or apartment block

## 1. Terminal Introduction

| Item | Description |
|------|-------------|
| P201 | • Main connection port |
| LED1 | • Power indicator (normally bright)<br>• Signal indicator (flash) |
| LED2 | • Normal bright when activating divert function<br>• Flash when the telephone number isn't preset |
| LED3 | • Normal bright when working in Debug mode<br>(Debug mode: dialing sound can be heard from the door panel)<br>• Flash when working in Test mode<br>(Test mode:TPC calls a fixed number when divert function is activated and the telephone numbers set on the monitor are invalid) |
| K1 | • LED3 will light up when you press down the button, and the Debug mode is activated.<br>• LED3 will turn off when you press down the button again and it will return to Normal mode. |
| K2 | • LED3 will flash when you press down the button and the Test mode is activated.<br>• LED3 will turn off when you press down the button again and will return to Normal mode. |
| SW501 | • Refer to 3.2 |
| JW501 | • 485 connection port, used to update the software for TPC (Manufacturer only) |
| J101 | • Connect to you telephone network |
| J102 | • Connect to your telephone |
| J103 | • The same as J101, but the terminal is different |
| J104 | • The same as J102, but the terminal is different |
| SW401 | • Set the configuration, refer to 3.1 |

## 2. Mounting

Direct Wall Mounting          DIN Rail Mounting
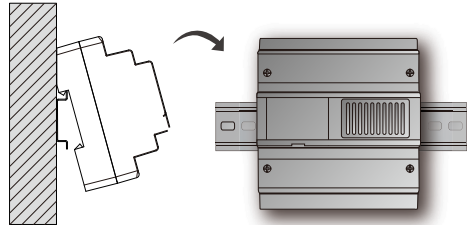


## 3.DIP Switch Settings for the TPC

### 3.1 SW401 switches settings:

| DIP | Setting | Discription |
|---|---|---|
| Bit1<br>(adjust the volume of the telephone line) |  | the volume is twice as loud than normal |
| |  | the volume is normal |
| Bit2<br>(adjust the volume of outdoor station) |  | the volume is twice as loud than normal |
| |  | the volume is normal |
| Bit3<br>(adjust the configuration of audio) |  | match the telephone network to DT system |
| |  | not match |
| Bit4<br>(adjust the configuration of audio) |  | match PBX system to DT system |
| |  | not match |

Note:1.Bit1 and bit2 cannot be "on" state at the same time.

2. Bit3 and bit4 cannot be "on" state at the same time.

3.2 SW501 switch settings:

House application:

Total of 6 bits for SW501 switches. Bit-6 must be set to OFF for a House installation.
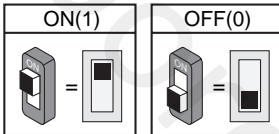


| Bit state | Description |
|-----------|-------------|
|  | Application for a house |

For a house installation only Bit-1 is useful, Bit2 to Bit5 are invalid.

| Bit state | Discription |
|-----------|-------------|
|  | The TPC has a preset user code of 15. The video monitors with user codes set from 00 to 14 can be read and written to, but the divert mode will be adopted from the monitor with a user code of 00 |
|  | With Bit 1set to ON, its user code is 16. The video monitors with its user code set from 16 to 30 can be read and written to, but the divert mode will be adopted from the monitor with its user code 16 |

Apartment application:

Total 6 bits for SW501 switches. Bit-6 must be set to ON in apartment system.
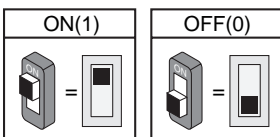


| Bit state | Discription |
|-----------|-------------|
|  | Application for apartment |

Bit-1 to Bit-5 are used to set its user code. The value is from 0 to 31, which have 32 different codes.

When multi monitors are installed for one user, these monitors have to use the same User Code setting, and the Master/Slave mode should be set on the Monitor.

| Bit state | User Code | Bit state | User Code | Bit state | User Code |
|---|---|---|---|---|---|
| | Code=1 | | Code=12 | | Code=23 |
| | Code=2 | | Code=13 | | Code=24 |
| | Code=3 | | Code=14 | | Code=25 |
| | Code=4 | | Code=15 | | Code=26 |
| | Code=5 | | Code=16 | | Code=27 |
| | Code=6 | | Code=17 | | Code=28 |
| | Code=7 | | Code=18 | | Code=29 |
| | Code=8 | | Code=19 | | Code=30 |
| | Code=9 | | Code=20 | | Code=31 |
| | Code=10 | | Code=21 | | Code=32 |
| | Code=11 | | Code=22 | | |

Note:1. The user code number for the TPC must set the same as the corresponding monitor.

2. For apartment applications, one TPC responds to one user code of the monitor, If slave monitors are connected for one user, the Master/Slave mode should be set correctly on the Monitor and the TPC unit will occupy the address code of the third slave monitor.

# 4.Telephone Number Setting on the Monitor

Touch screen monitors:
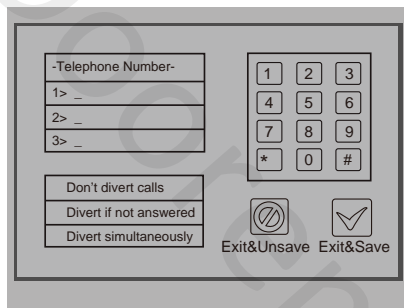


- Maximum of 3 telephone numbers can be set, touch the telephone number frame then input the the number by touching the digital keypad.

Button operation monitors:
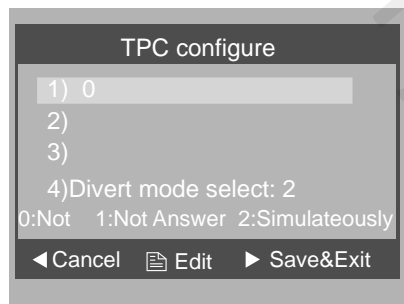


- Maximum of 3 telephone numbers can be set, Use ▲ /▼ Button to move upward / downward to select the item, then press the MENU button to edit. Use ▲ / ▼ Button to increase / decrease the value and use ▶ button to input the next digit. Use ▶ button to ◀ button to cancel the input. Press the MENU button again to finish the edit operation.

Note:

- There are 3 types of divert modes:
- 1:**Don't divert calls** - calls from the door panel will not be diverted at all.
- 2:**Divert if not answered** - the door panel calls the indoor monitor first, if nobody answer the call within 25 seconds, the call will be diverted to the telephone number you set. At this mode, the monitor will shut off immediately when the TPC diverts sucessfully, while it won't affect the communication between the TPC and door panel. Otherwise, the monitor can do the operation of monitoring, talking and unlocking.
- 3:**Divert simutaneously** - calls from the door panel will be diverted to your telephone within 5 seconds. At this mode, the monitor won't shut off when the TPC diverts sucessfully, but if the monitor answers the call at this time, the TPC will stop.
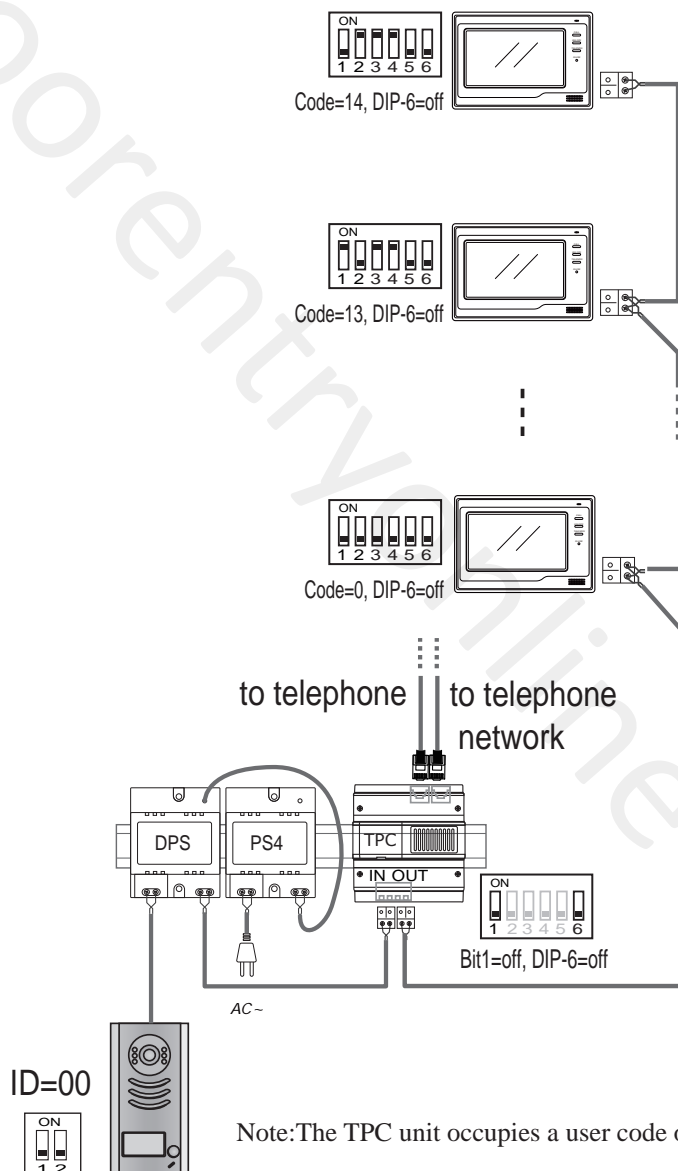
# 5.Operation Instructions

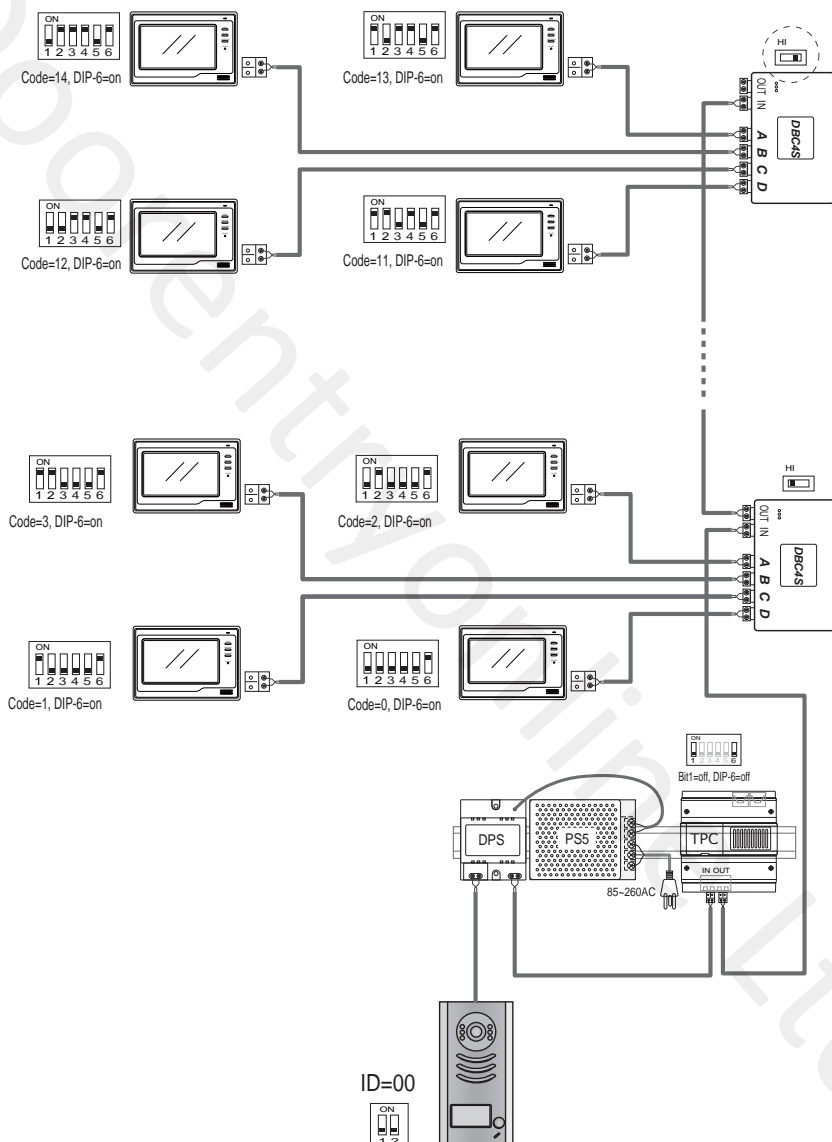Note: Divert function is activated in the following instructions

| **Item** | **Discription** |
|---|---|
| Unlocking | • Input 1# on your telephone or mobile phone to release the first lock release<br>• Input 2# on you telephone or mobile phone to release the second lock release |
| Hanging up | • Input 9# on your telephone or mobile phone to hang up immediately<br>• Total divert calling time is more than 5 minutes |
| Calling next telephone number | • 1:At least 2 telephone numbers must be set on monitor<br>• 2:During communication between telephone and outdoor station,"#" button has not been input on telephone and the calling time of each group number is less than 80 seconds. |
| Calling slave telephone | • Add a letter "P" between master telephone and slave telephone.The TPC will call the slave telephone directly. |
| Priority calling | • The J102 terminal will be shut off before the TPC calling, then activate calling. |

# 6.Wiring

Basic in-out mode(for house, flat or office)

Code=14, DIP-6=off

Code=13, DIP-6=off

Code=0, DIP-6=off

to telephone | to telephone network

DPS

PS4

TPC

IN OUT

Bit1=off, DIP-6=off

AC~

ID=00

Note:The TPC unit occupies a user code of 15
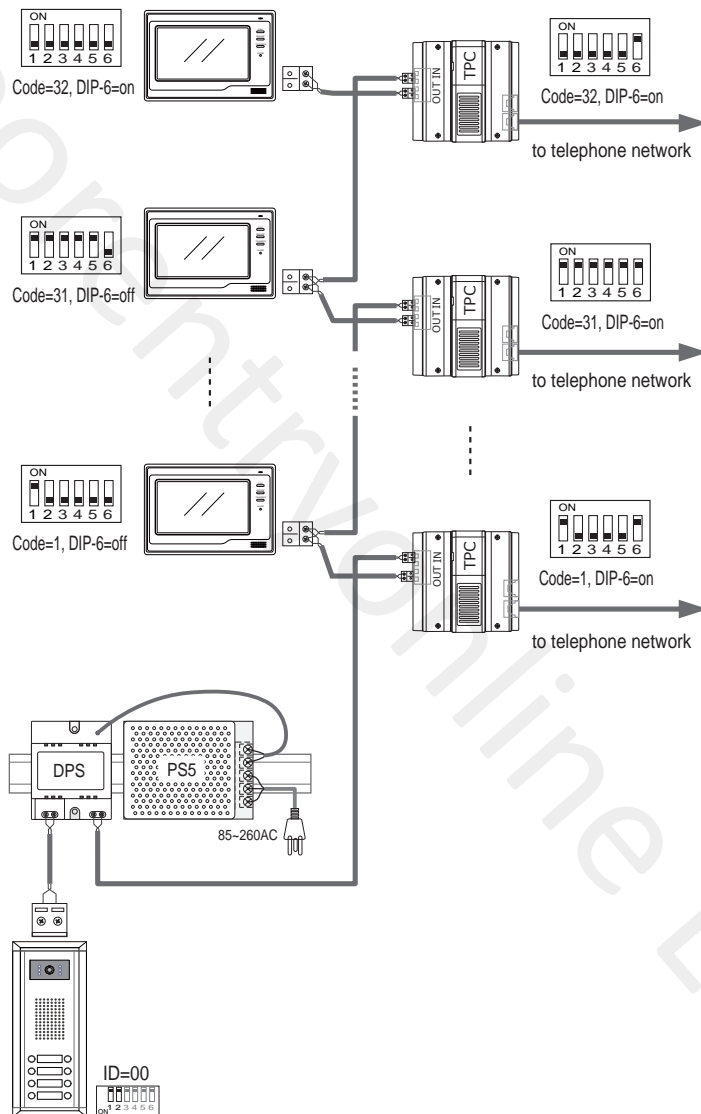
Star wiring mode with DBC4S 4 way branch connector (for house, flat or office)



Note:The TPC unit occupies a user code of 15

Basic in-out mode (for apartment block)



Code=32, DIP-6=on
Code=32, DIP-6=on
to telephone network

Code=31, DIP-6=off
Code=31, DIP-6=on
to telephone network

Code=1, DIP-6=off
Code=1, DIP-6=on
to telephone network

DPS    PS5
85~260AC

ID=00

Note: If slave monitors are connected for one user, the TPC unit occupies the adress of the third slave monitor.

Star wiring mode with DBC4S (for apartment block)
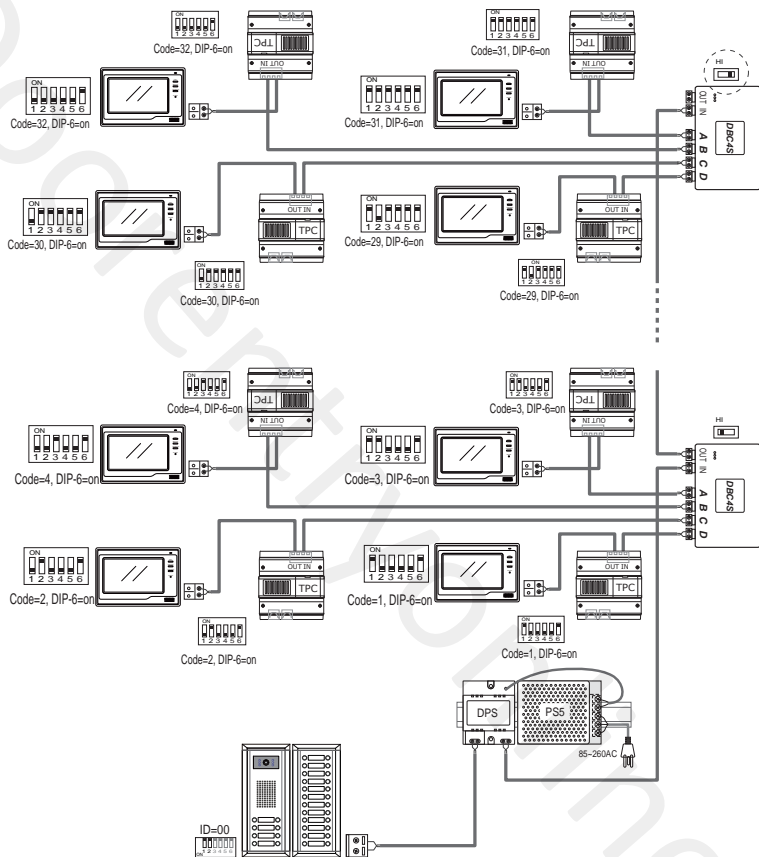


Note:If slave monitors are connected in one user,the TPC unit occupies the adress of the third slave monitor.

## 6.Specification

Power input:                     DC 20~28Vdc (supplied by PS5)
Power Consumption:              0.5W in standby, 3W in working
Working temperature:            -10℃ +40℃
Wiring:                         2 wire, non-polarity
Dimension:                      140(L) x 150(D) x 60(H)mm