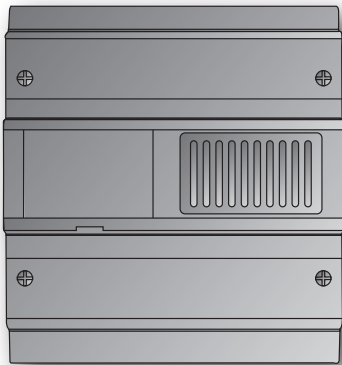# DT-TPC

telephone converter

User Manual

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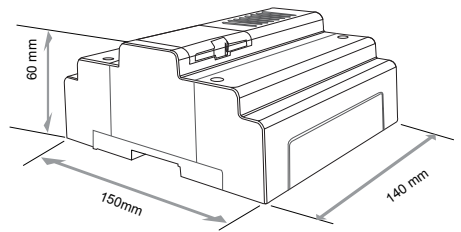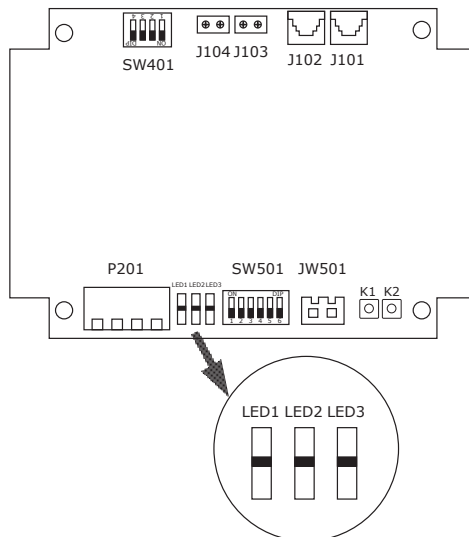
About TPC Unit

Discription:

The TPC unit is a telephone converter designed for DT 2 wire system to divert calls from outdoor station to telephone or mobile phone.With TPC unit,you can communicate with outdoor person by your telephone or mobile phone which just like a remote control,you can do the operation of talking,unlock and so on.

Features:

- Maximum 3 telephone number can be set on monitor.
- Must be with TPC function for monitor
- Divert Calls from monitor to telephone via TPC ,the TPC is like a telephone,when setting the diversion function,door station calls TPC first,then divert to the telephone number you set.
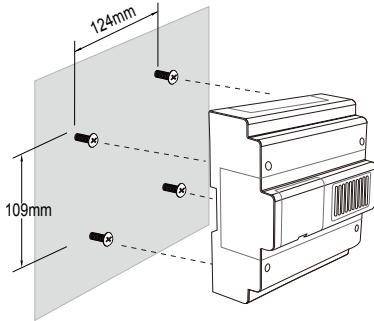- Application:villa and apartment

1. Terminal Introduction

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

2. Mounting

Direct Wall Mounting   DIN Rail Mounting
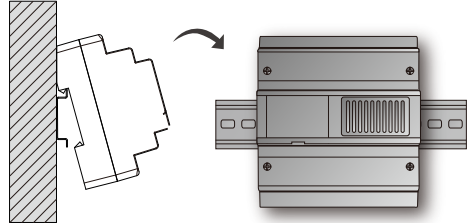
3.DIP Switches Settings for TPC

3.1 SW401 switches settings:

DIP	Setting	Discription
Bit1 (adjust the volume of the telephone line)	ON 1 2 3 4	the volume is twice louder than normal
	ON 1 2 3 4	the volume is normal
Bit2 (adjust the volume of outdoor station)	ON 1 2 3 4	the volume is twice louder than normal
	ON 1 2 3 4	the volume is normal
Bit3 (adjust the configuration of audio)	ON 1 2 3 4	match the telephone network to DT system
	ON 1 2 3 4	not match
Bit4 (adjust the configuration of audio)	ON 1 2 3 4	match PBX system to DT system
	ON 1 2 3 4	not match

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

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

3.2 SW501 switches settings:

Villa application:

Total 6 bits for SW501 switches. Bit-6 must be set to OFF in villa system.

ON(1)	OFF(0)
=	=
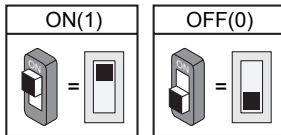
Bit state	Discription
ON 1 2 3 4 5 **6**	Application for villa

To villa application, just Bit-1 is useful, Bit2 to Bit5 are invalid.

Bit state	Discription
ON 1 2 3 4 5 6	TPC just is a monitor that its user code is 15, besides, the monitors with its user code from 00 to 14 can be read and written, but you should know that the divert mode will be adopted from the monitor with its user code 00
ON 1 2 3 4 5 6	TPC just is a monitor that its user code is 31, besides, the monitors with its user code from 16 to 30 can be read and written, but you should know that 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.

ON(1)	OFF(0)
=	=
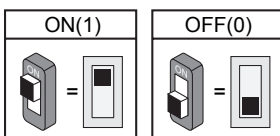
Bit state	Discription
ON 1 2 3 4 5 **6**	Application for apartment

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

When multi monitors are installed in 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 TPC must set the same as the corresponding monitor.

2. For apartment application,one TPC responds one user code of monitor,If slave monitors are connected in one user,the Master/Slave mode should be set correctly on the Monitor. and the TPC unit occupies the adress of the third slave monitor.

4.Telephone Number Setting on Monitor

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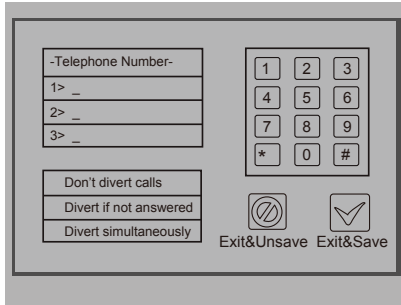
- Maximum 3 telephone numbers can be set,touch the telephone number frame,then input the the number by touching the digital keypad.

Button operation monitors:

- Maximum 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 next digital,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 outdoor station will not be diverted.
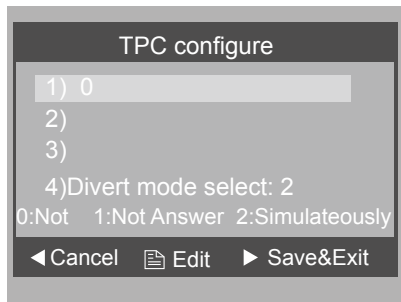- 2:Divert if not answered----outdoor station calls indoor monitor firstly,if nobody answer the call within 25 seconds,the call will be diverted to the telephone number you set.   At this mode,the monitor will shut off immediatelly when TPC deverts sucessfully,while it won't affect the communication between TPC and outdoor station. Otherwise, the monitor can do the operation of monitoring,talking,and unlocking.
- 3:Divert simutaneously----calls from outdoor station will be diverted to your telephone immediately.At this mode,the monitor won't shut off when TPC deverts sucessfully,but if the monitor answers the call at this time,TPC will quit absolutely.
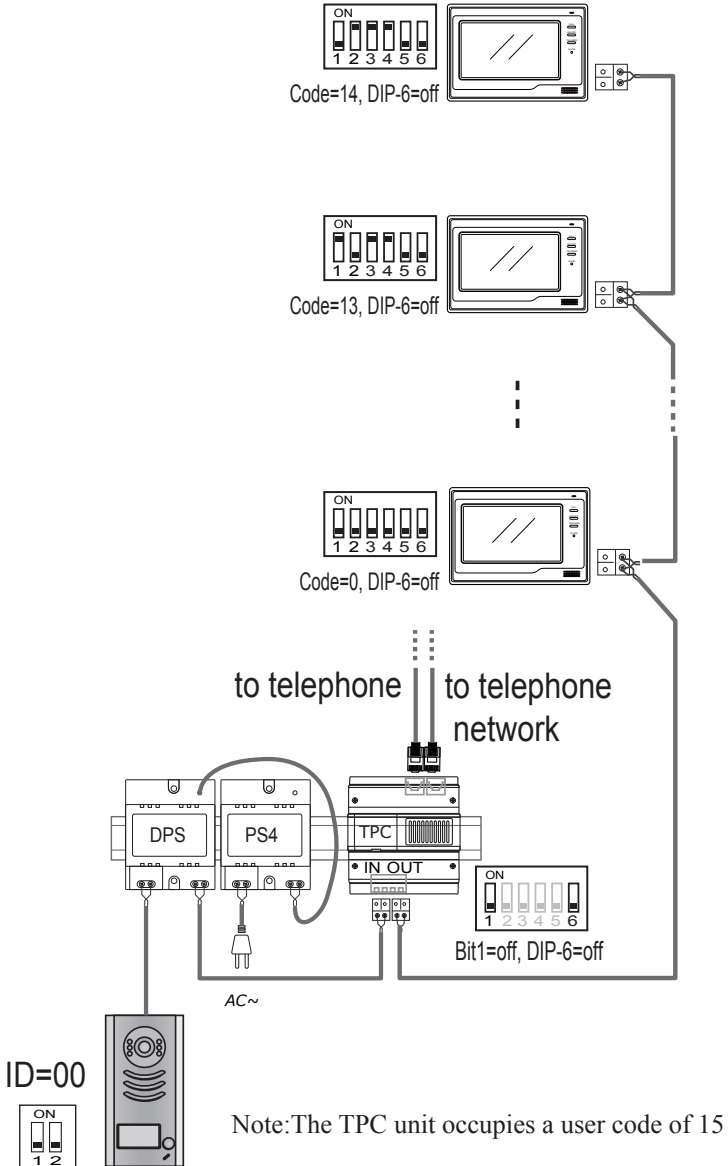
5.Operation Instructions

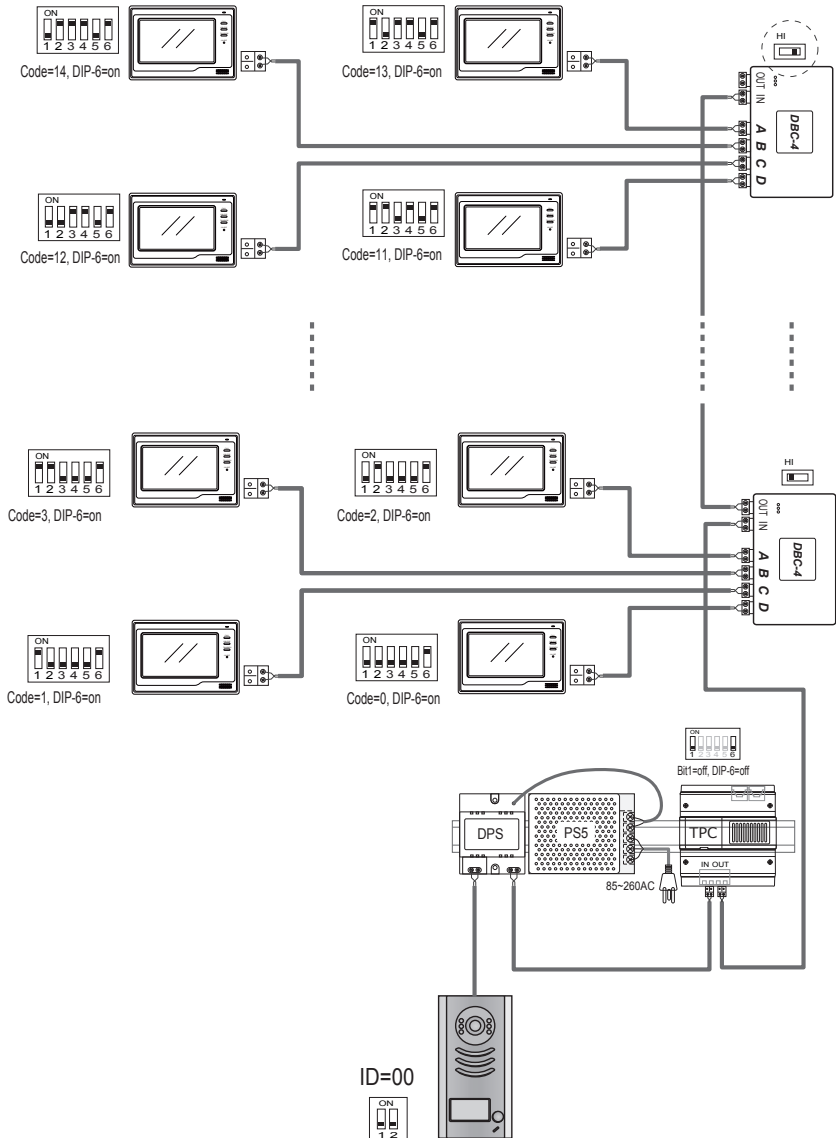Note: Divert function is activated in the following instructions

Item	Discription
Unlocking	• Input 1# on your telephone or mobile phone to release the first lock • Input 2# on you telephone or mobile phone to release the second lock
Hanging up	• Input 9# on your telephone or mobile phone to hang off absolutely • Total divert calling time is more than 5 minutes
Calling next telephone number	• 1:At least 2 telephone numbers must be set on monitor • 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 villa)

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(for villa)

Code=14, DIP-6=on

Code=13, DIP-6=on

Code=12, DIP-6=on

Code=11, DIP-6=on

Code=3, DIP-6=on

Code=2, DIP-6=on

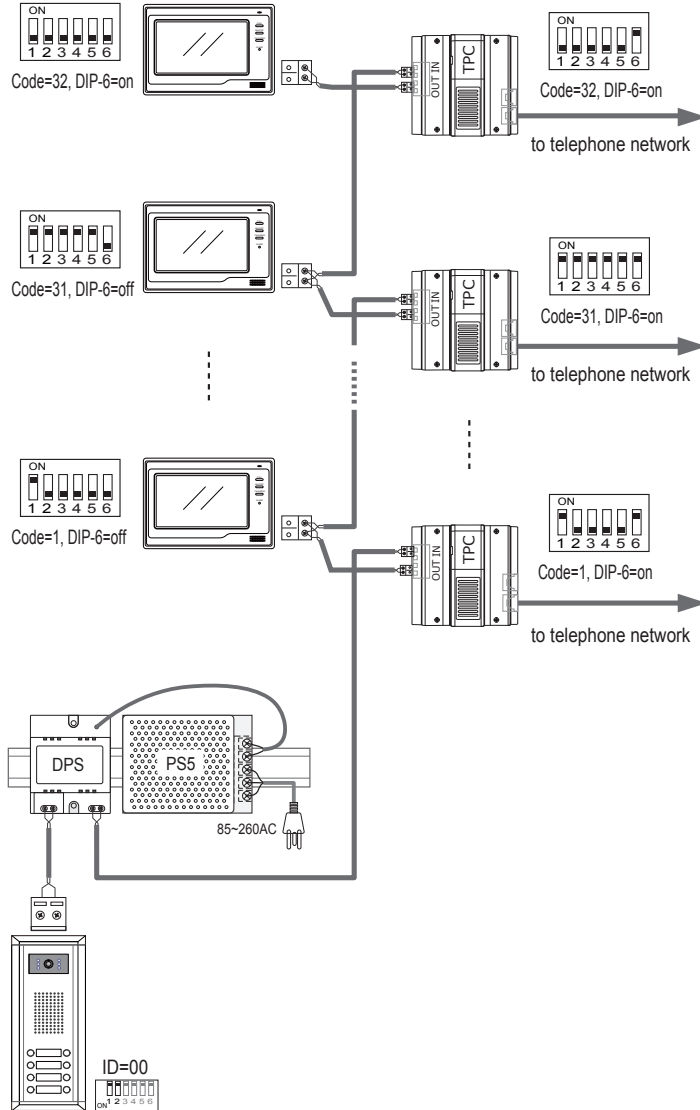Code=1, DIP-6=on

Code=0, DIP-6=on
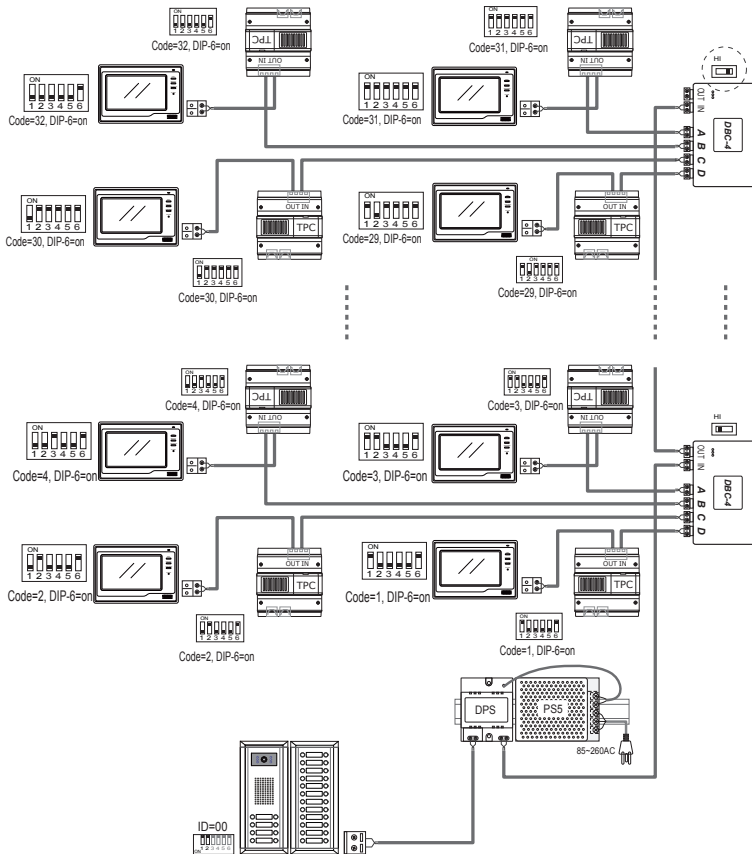
Bit1=off, DIP-6=off

DPS

PS5

TPC

85~260AC

ID=00

Note:The TPC unit occupies a user code of 15

Basic in-out mode(for apartment)

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

Basic star wiring mode(for apartment)

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, 3 W in working
Working temperature:	-10ºC +40ºC
Wiring:	2 wire,non-polarity
Dimension:	140(L)X150(D)X60(H)mm