(((APC)))®
Automation Systems

MONDO⁺PLUS

Wi-Fi Access Control Keypad with card reader

Keypad

GET IT ON Google Play   GET IT ON App Store
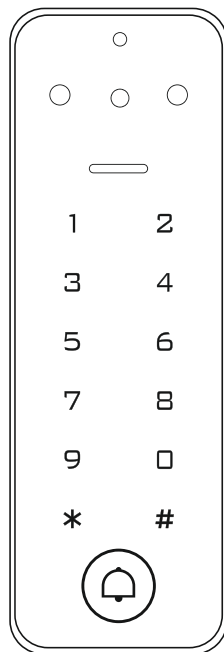
Description

The APC Automation Systems ® Mondo$^+_{Plus}$ is a standalone access control keypad with a Swipe card reader as well as control by APP from anywhere in the world. Both Fail Secure and Fail Safe locks can be used and also allow the integration of exit buttons and allow the user to generate a temporary code remotely through the APP.

Features

Ultra-low Power Consumption	Standby current is less than 60mA at 12~18V DC
Wiegand Interface	Wg26 ~34 bits input and output
Searching time	Less than 0.1s after reading card
Backlight keypad	Operate easily at night
Temporary code	User can generate a Temporary code through APP
Access Methods	Card, Pin code, Card & Pin code
Independent codes	Use codes without related card
Change codes	Users can change codes by themselves
Delete users by card No.	The lost card can be delete by keypad

Specifications

Working Voltage：DC12-18V	Standby Current： ≤60mA
Card Reading Distance：1～3cm	Capacity：1000 users
Working Temperature：-40℃～60℃	Working Humidity：10%～90%
Lock output load：2A Maximum	Door Relay time 0～99S （Adjustable）

Wiring Output

| Color	ID	Description
Green	D0	Wiegand Input(Wiegand Output in Card Reader Mode)
White	D1	Wiegand Input(Wiegand Output in Card Reader Mode)
Yellow	OPEN	Exit Button input terminal
Red	+12V	12-18V + DC Regulated Power Input
Black	GND	12-18V DC Regulated Power Input
Blue	NO	Relay Normally Open
Brown	COM	Relay Common
Grey	NC	Relay Normally Closed

Indicators

Operate Status	LED Light Color	Buzzer
Standby	Red	
Keypad Touch		Beep
Operation Successful	Green	Beep—
Operation Failed		Beep-Beep-Beep
Entering into Programming	Flash Red Slowly	Beep—
Programmable Status	Orange	Beep
Exit Programming	Red	Beep—
Door Opening	Green	Beep—

Installation

• Fix the mounting plate as per the two holes (A and C) on the plate to the surface in which the keypad will be installed.

• Feed the keypad cable through the hole B insuring that any unused wires are isolated from one another.

• Fit the keypad to the mounting plate and fix in place using the phillips screw underneath.
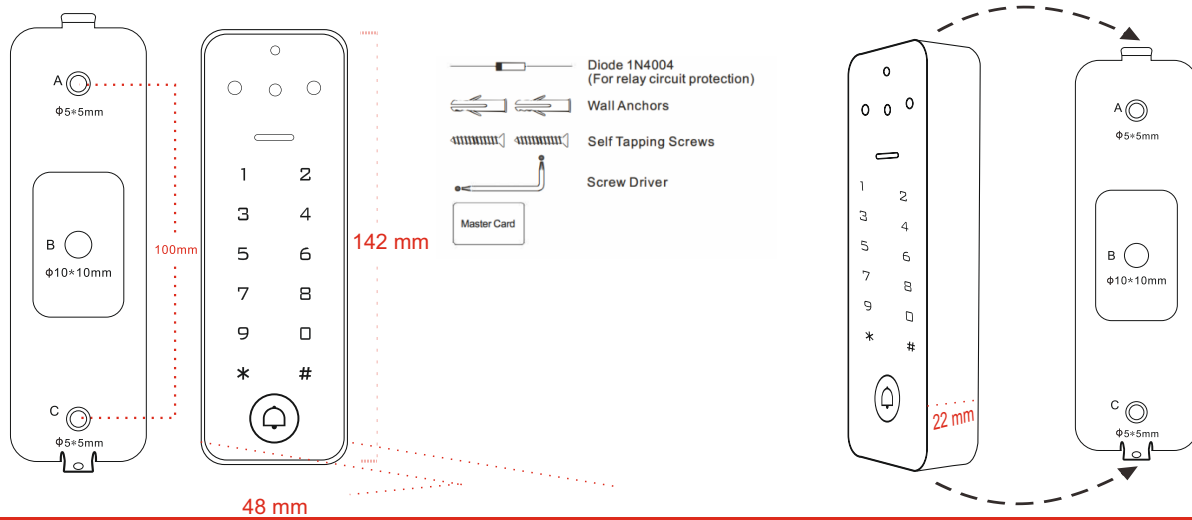
Programming

Adding Standard Users

A standard user can be added with and without a ID number, it is recommended to use the ID number method as it will simplify deleting a user in the future. If you do not use the assign the ID number you may need to delete all users when needing to remove a user.

Adding Standard Users with an ID number

Adding a PIN Code User | * | Master code | # | 1 | ID number | # | 4 digits Pin code | # |

Adding a Swipe Card User | * | Master code | # | 1 | ID number | # | Read card | # |

ⓘ Default factory master code is 123456

Adding Standard Users without an ID number

Add card | * | Master code | # | 1 | Read card | # | ... | # | Cards can be added continuously

Add Pin | * | Master code | # | 1 | 4-6 digits pin code | # | ... | # | Pin code can be added continuously

ⓘ Used ID is between 1 to 989

ⓘ Default factory master code is 123456

Deleting Users

Delete card | * | Master code | # | 2 | Read card | # | ... | # | Cards can be deleted continuously

Delete ID number | * | Master code | # | 2 | ID number | # | ... | # | When the card is broken or lost, you can delete the user by ID number

Delete Pin code | * | Master code | # | 2 | Pin code | # | ... | # | Pins can be deleted continuously

Delete ID number | * | Master code | # | 2 | ID number | # | ... | # | you can delete the pin code using user ID number.

Delete ALL users | * | Master code | # | 2 | Master code | # | Delete ALL PIN code & card users except public PIN code.

ⓘ Used ID is between 1 to 989

ⓘ Default factory master code is 123456

Setting the Usage Method

The system can be set to be used by card OR PIN code (Default), CARD ONLY, Card and Pin together (Dual Authentication).

By card | * | Master code | # | 4 1 | # | Only the card user could unlock the door, keypad is invalid

By card+PIN code | * | Master code | # | 4 2 | # | To enable this function, the user PIN code has to be changed.

By card or PIN code | * | Master code | # | 4 4 | # | Both card user and PIN user could unlock the door (factory default)

ⓘ Used ID is between 1 to 989

ⓘ Default factory master code is 123456

Set Strike-out Alarm

The strike-out alarm will engage after 10 failed entry attempts (Factory is OFF). It can be set to deny access for 10 minutes after engaging or disengage only after entering a valid Card/ PIN or Master code/Card card.

*	Master code	#	60	#	Factory default
*	Master code	#	61	#	Access will be denied for 10 minutes (Exit button will work)
*	Master code	#	62	#	Alarm ON
*	Master code	#	5	0~3	#	Alarm time can be set (default is 1 minute)

(i) Default factory master code is 123456

Audible and Visual Response

Keypad Sound and LED light can be Enabled or disabled using below codes.

*	Master code	#	70	#	Disable keypad sound.
*	Master code	#	71	#	Enable keypad sound (Factory default)
*	Master code	#	72	#	Keypad LED Always OFF
*	Master code	#	73	#	Keypad LED Always ON (Factory default)

(i) Default factory master code is 123456

Wiegand Reader Mode

Used when the system is connected to a wiegand system and is to be used as a wiegand reader.

| * | Master code | # | 8 | 26~44 | # | WG26/34 input and output(factory default is 26 bits). |

(i) Default factory master code is 123456

Service Free Changes

If necessary the following changes can be made without the need to enter the programming state.

Change the code by ID number | * | User ID | # | Old code | # | New code | # | Repeat New code | # |

Relay Time

The relay time is adjustable from 1 to 99 Seconds, the default setting is 5 seconds. Ideally for gate and garage doors the time should be set to 1 second, for electric strikers and magnetic locks it can be set to the preferred release time.

| * | Master code | # | 3 | 1~99 | # |

(i) Default factory master code is 123456

Setting the Relay to Timed or Latching Mode

The relay time can be set to a timed state as per above or a latching circuit for ON/OFF applications. For gate and garage doors along with electric strikers and magnetic locks the system should be set to timed mode which is the default.

When using latching mode first code/card will latch the relay on, the next will latch the relay off.

Timed | * | Master code | # | 3 | # |

Latching ON/OFF | * | Master code | # | 30 | # |

(i) Default factory master code is123456

Changing the Master Code

The Master code can be changed to prevent unauthorised access into the keypads programming menu. This is NOT a PIN code to operate the keypad.

| * | Master code | # | 0 | New code | # | New code | # |

(i) Default factory master code is 123456

Factory Reset and Programming Master Add & Delete Cards

Power OFF, press and hold the exit button Power ON the keypad still holding the exit button now a double beep will sound, release the exit button.
The LED will illuminate ORANGE for 10 seconds this is the window to swipe through the MASTER ADD Card then the MASTER DELETE Card

If you do not have/do not wish to program Master Cards then just wait 10 seconds till the keypad returns to RED (Standby colour).
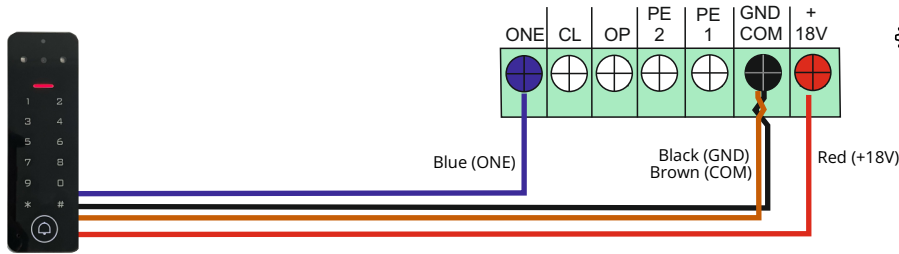
The master code has been reset to 123456, factory default settings are successful.

★Registered user data won't be deleted when reset to factory default
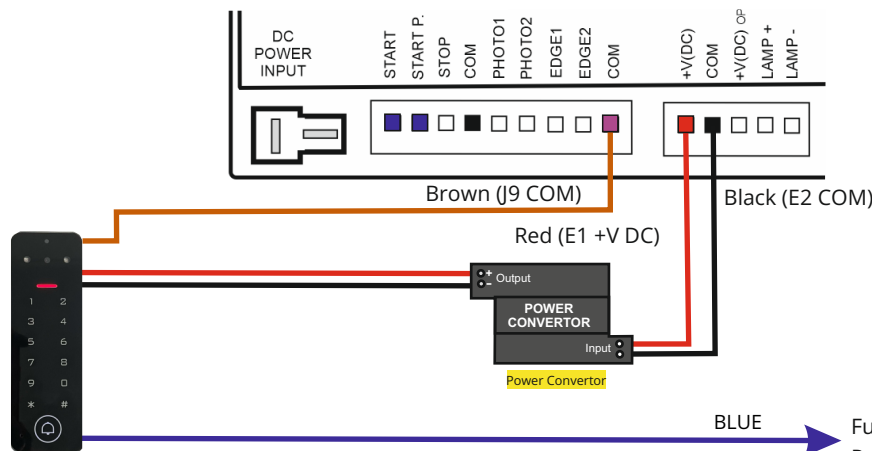
Quick Setup for Automatic Gates

| * | 1 2 3 4 5 6 | # | 4 | 1 | # | * | To set the relay time to ONE second |

| * | 1 2 3 4 5 6 | # | 9 | 4 digits code | # | * | To add your PIN code |

• APC-SG802-AC Typhoon •APC-SG1600-AC Tsunami •APC-SG3000-AC Tornado

| ONE | CL | OP | PE 2 | PE 1 | GND COM | + 18V |

Blue (ONE)

Black (GND)
Brown (COM)

Red (+18V)

Relay time should be set to ONE seconds

• APC-P450S Proteous 450 *Sprint* • APC-P500 Proteous 500

DC POWER INPUT

START | START P. | STOP | COM | PHOTO1 | PHOTO2 | EDGE1 | EDGE2 | COM | +V(DC) | COM | +V(DC) OP | LAMP + | LAMP -

Brown (J9 COM)

Black (E2 COM)

Red (E1 +V DC)

Output

POWER CONVERTOR

Input

Power Convertor

BLUE

Full Gate opening connect to **J1 (Start)**
Pedestrian Gate opening connect to **J2 (P.Start)**

Relay time should be set to ONE seconds

• APC-CBSW24 Swing Gate System

P.B.1   P.B.2

-V | +V | — | BEAM | GND | LOOP | GND | P.B.1 | GND | P.B.2 | GND
Power For BEAM

RED (+V)   BLACK (-)   Brown (GND)

Output
POWER CONVERTOR
Input
Power Convertor
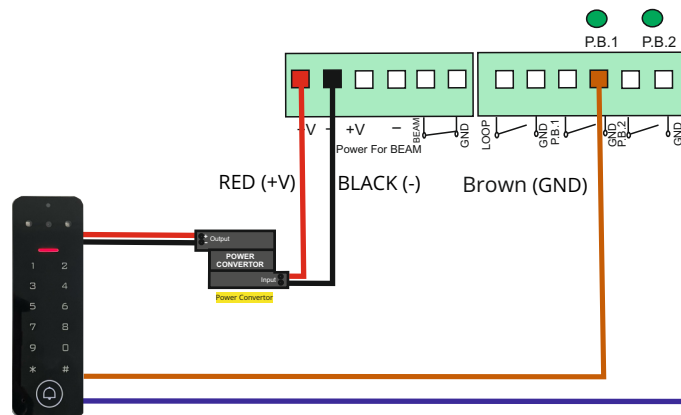
BLUE

Double Gate opening connect to **PB2**
Single/Pedestrian Gate opening connect to **PB1**

Relay time should be set to ONE seconds

All Other Automatic Gate Systems

Power Supply or System Power 12-18V DC ONLY

| Negative | Positive |
| Black | Red |

BLACK (-)   RED (+)

Brown

Common for O/S/C or Open/Close Input

BLUE

O/S/C or Open/Close Input
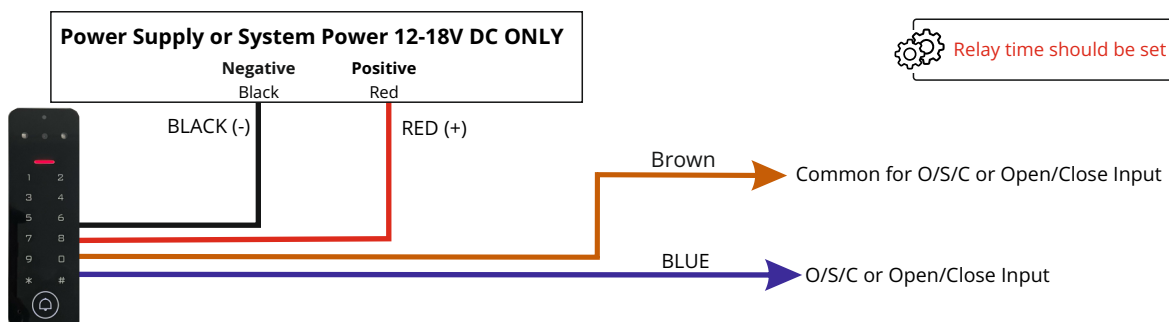
Relay time should be set to ONE seconds

Quick Setup for Electric Striker

`*` `1 2 3 4 5 6` `#` `4` `5` `#` `*` To set the relay time to FIVE seconds

`*` `1 2 3 4 5 6` `#` `9` `4 digits code` `#` `*` To add your PIN code

Connection to Electric Striker (Fail Secure Type)
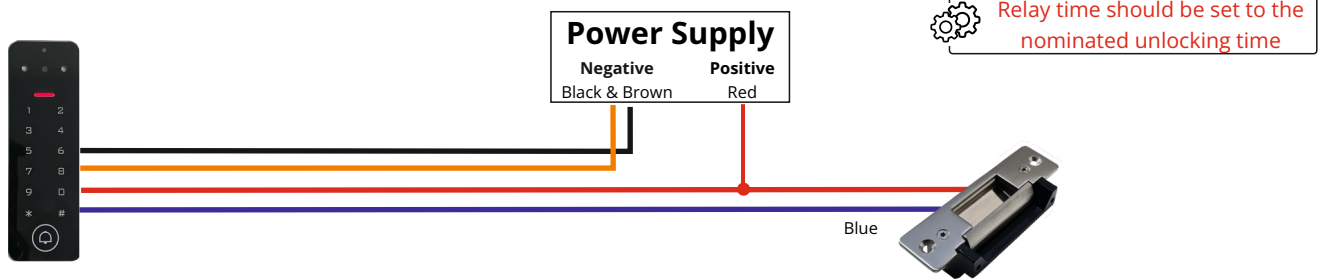
Power Supply

Negative	Positive
Black & Brown	Red

Relay time should be set to the nominated unlocking time

Blue

Note: Power supply voltage must be suitable according to the electric strikers voltage and amperage requirements and must be within the keypads working parameter of 12-18 V DC.

Connection to Electric Striker (Fail Safe Type)
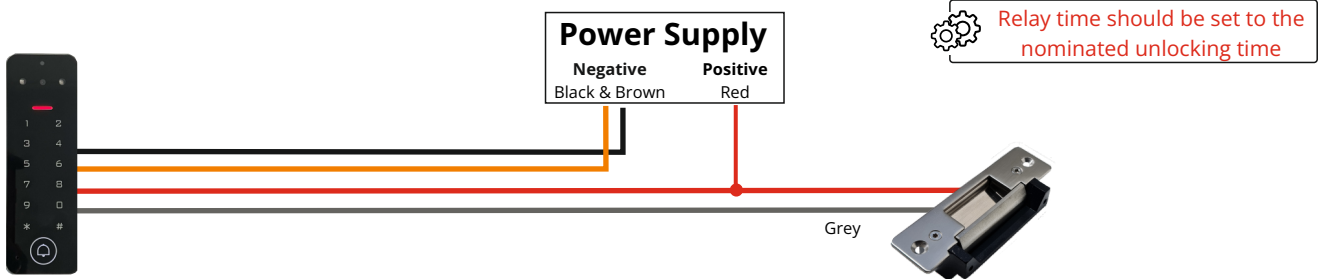
Power Supply

Negative	Positive
Black & Brown	Red

Relay time should be set to the nominated unlocking time

Grey

Note: Power supply voltage must be suitable according to the electric strikers voltage and amperage requirements and must be within the keypads working parameter of 12-18 V DC.

Exit Button Connection

Power Supply

Negative	Positive
Black	Red

Yellow
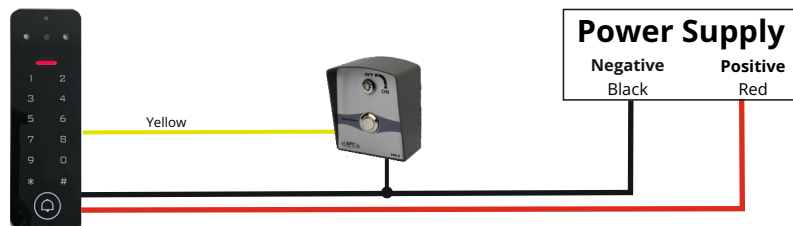
Data Backup Mode

1. Set the device to receive data into Data Input Mode

| * | Master code | # | 71 | # |

2. Set the device to send data into Data Output Mode

| * | Master code | # | 70 | # |

If successful the LED will flash green during the process then return to LED red after completion

Power Supply

| Negative | Positive |
| Black | Red |

D0 Green
D1 White

(i) Default factory master code is 123456

Wiegand Connection

Power Supply

| Negative | Positive |
| Black | Red |

D0 Green
D1 White
Wiegand Reader
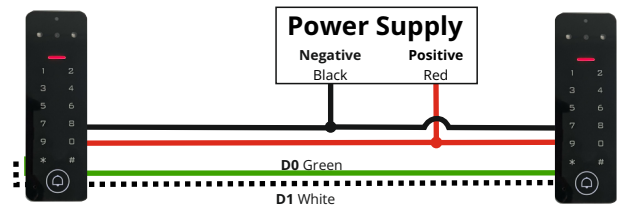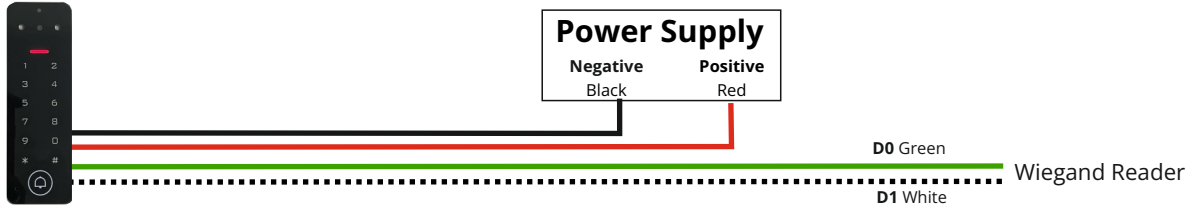
APP Configuration

APP Install and Registration (All Users)

1. Download Tuya Smart from the APP Store on your Android/Apple Device.
2. Open the App and register an account ensuring you select "Australia" as the country
3. Login after registration. NOTE: Each user must register there own account.

Scan QR code to download APP or search TuyaSmart to download APP

Android
Search "TuyaSmart" download

or

ios
APP Store
Search "TuyaSmart" download

Scan QR code   **Search TuyaSmart to download APP**

APP Preparation (Home Owners Device)

1 Go to "Me"

2 Go to "Home Management"

3 Select "My Home..."
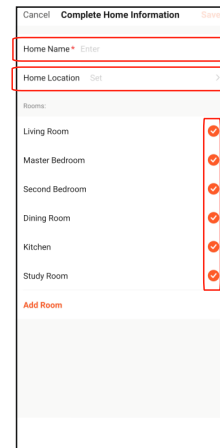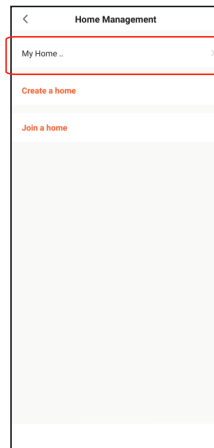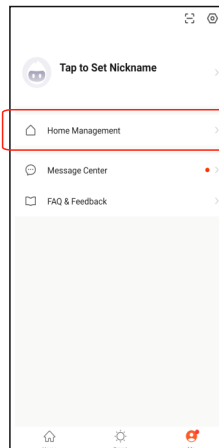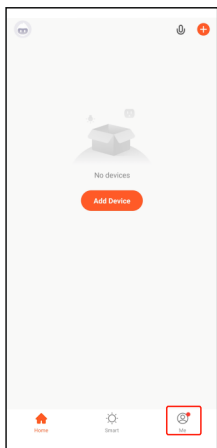
4 Name the home

5 Set the Location

6 Deselect ALL the rooms except the one where the indoor monitor is installed.

7 Press Save

Adding the Keypad to the Administrator (Home Owners) Device

1 Open APP and Press Add Device
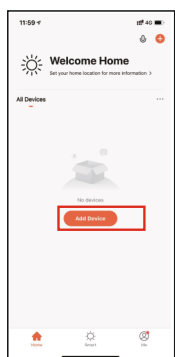
2 Set the Keypad into Wi-Fi Pairing state

| * | Master code | # | 9 | Master code | # |

(i) Default factory master code is 123456

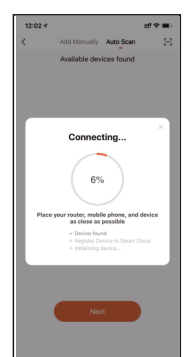**3** Click Auto Scan Enure Wi-Fi and Bluetooth are ON
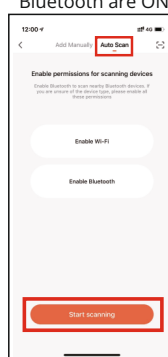
4 One the Mondo has been found press Next
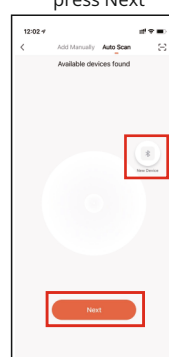
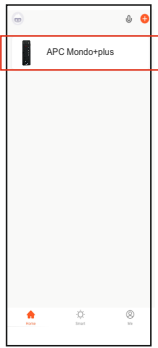**5** Enter the Wi-Fi password
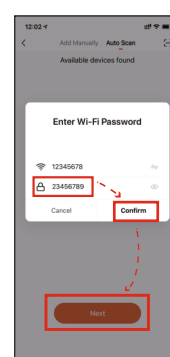
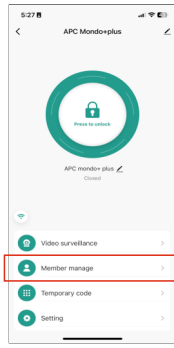**6** Final Configuration

Sharing with another User(Administrator/ordinary member)
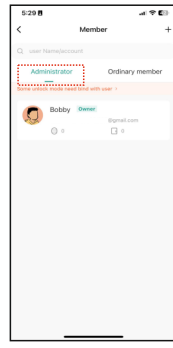
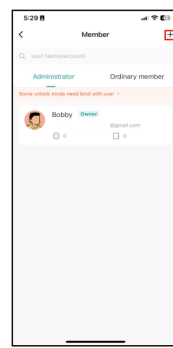**Note: Then member that you shared to must be register to Tuya App First.**
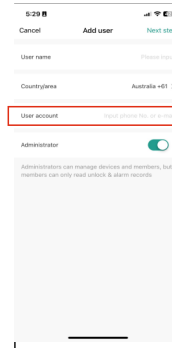
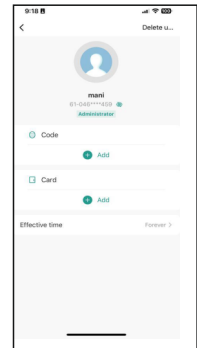1 Go into the APP and select the Keypad

2 Press the member manage

3 Select the user type administrator/ordinary member.
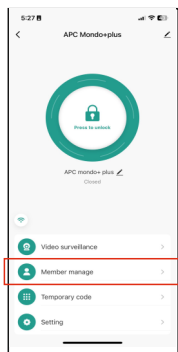
4 Select + icon .

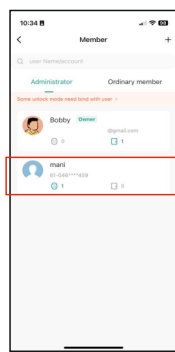5 ADD user details Tuya account details and then press Next.

6 An invitation will be sent to the user.
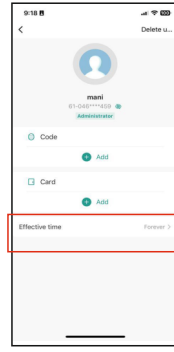
Manage Members

Note: The Owner (Super Master) can decide effective time (Permanent or Limited) to the members.
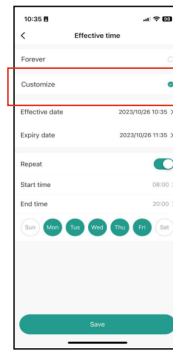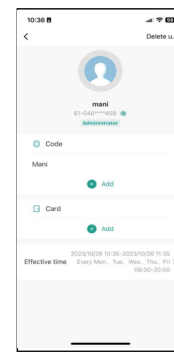
1 Press the member manage

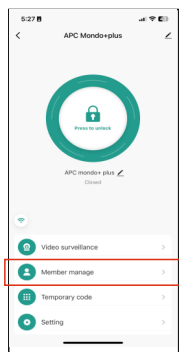2 Select the member to manage.

3 Select the Effective time
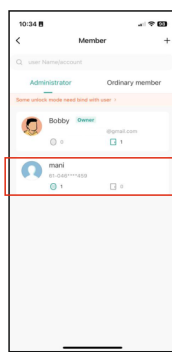
4 customize the effective time and Save.

5 Effective time will be displayed on member account.
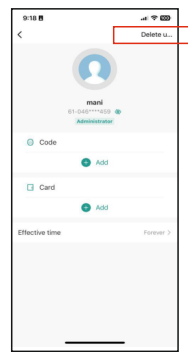
Manage Members

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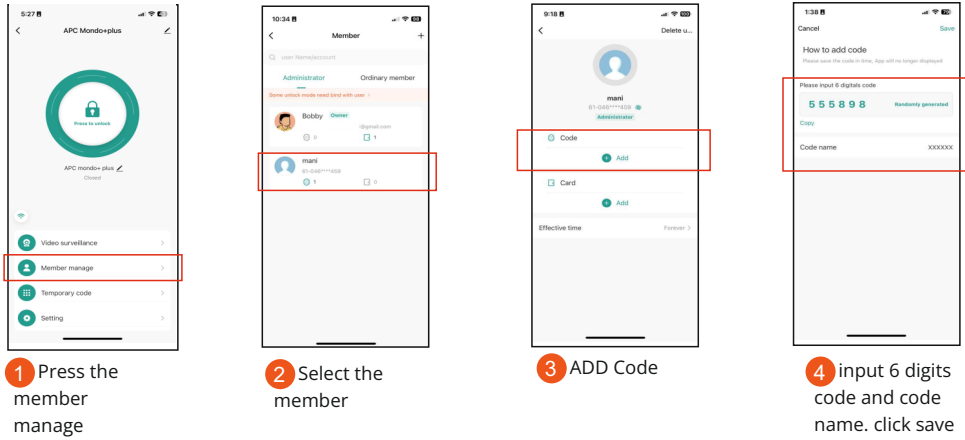
1 Press the member manage

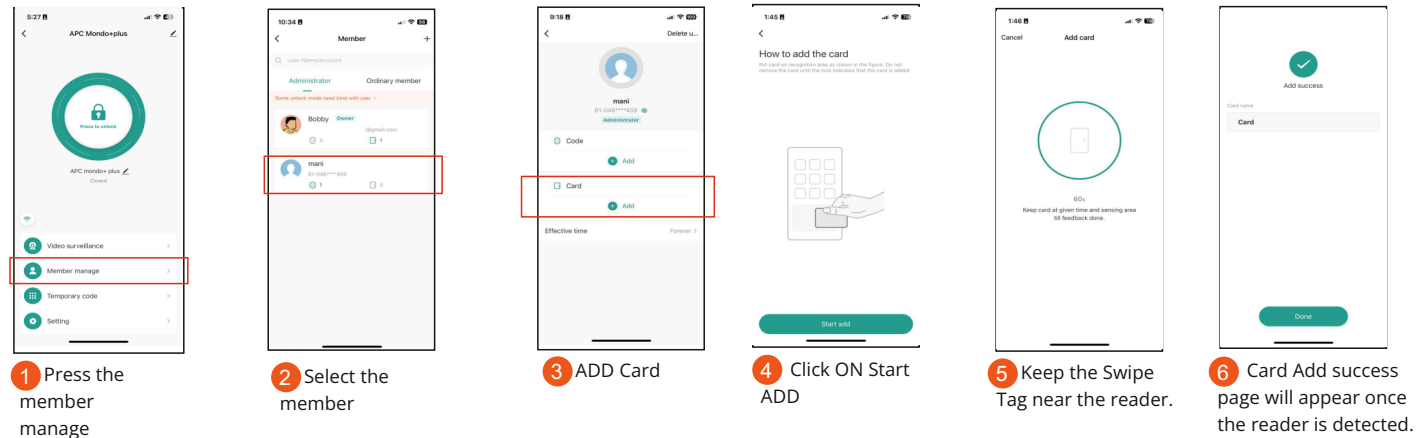2 Select the member to manage.

3 Delete user.

ADD Users PINCODE via APP support.

Note: Can add a Pin code by desired number or generate a random number. can copy the Number and forward to the user.

1 Press the member manage
2 Select the member
3 ADD Code
**4** input 6 digits code and code name. click save

ADD Users Card via APP support.

Note: Can add a swipe Card via App support with following procedure. Swipe card must be presented near the keypad during this process.

1 Press the member manage
2 Select the member
3 ADD Card
4 Click ON Start ADD
5 Keep the Swipe Tag near the reader.
6 Card Add success page will appear once the reader is detected.

Delete users pin code/ Card

Note: Using same process we can delete CODE or Card from the user.

1 Press the member manage
2 Select the member
3 Select the CODE/CARD
4 Delete CODE/CARD
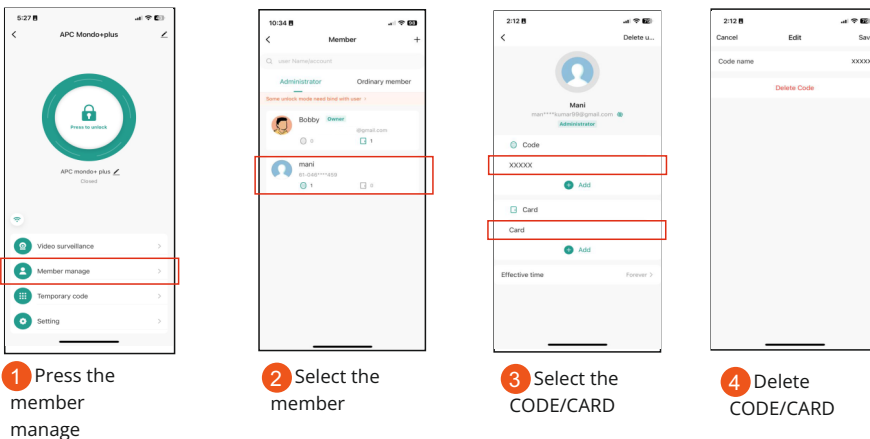
Temporary Code

Temporary Code can be created or Randomly generated using APP and can be shared with the guest/Users by (whatsapp, skype, emails and wechat)
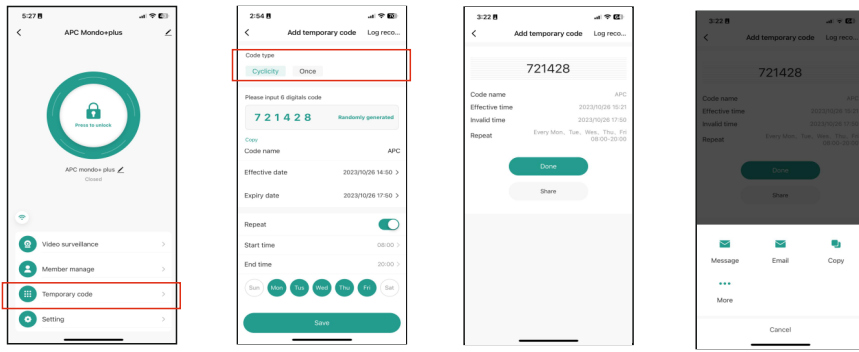
Two types of Temporary code can be created CYCLICITY and ONCE.

CYCLICITY: Code can be created for a particular period, particular day and Particular Time.

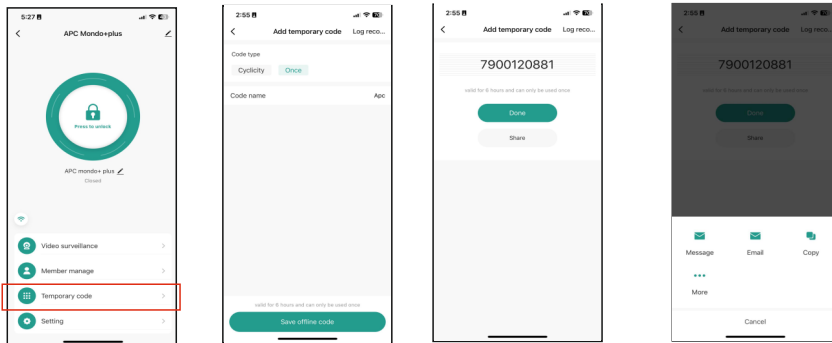For example, Valid at 9:00 am ~ 5:00 pm every Monday~Friday during May~August.

ONCE: One-time Code can be created, valid for **6 hours** and can only be used Once.

CYCLICITY:

① Press on temporary code

② Select cyclicity and fill the details and save.

③ Temporary code is created

④ pin code can be shared by clicking on the share button.

ONCE:

① Press on temporary code

② Select **Once** and fill the code name and click on save offline code.

③ Temporary code is created

④ pin code can be shared by clicking on the share button.

Note: One-time Code can be created, valid for **6 hours** and can only be used Once.
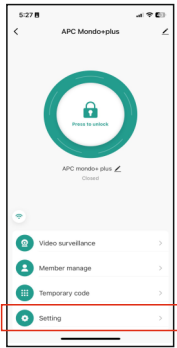
Edit Temporary Code

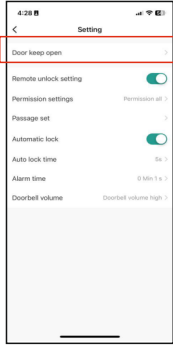**Temporary code can be deleted, edited or renamed in the valid period.**
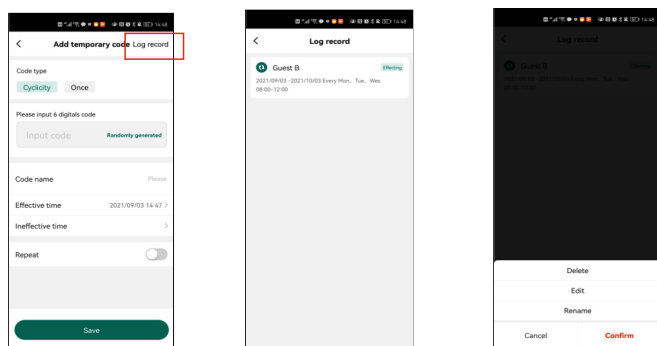
① Press on temporary code then Log record

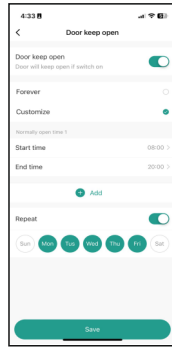② Select the log record you desire to change

③ Delete/ Edit/Rename

Timer/ Door keep Open.
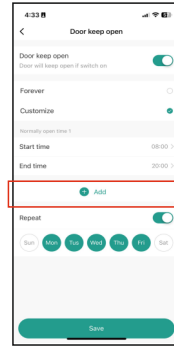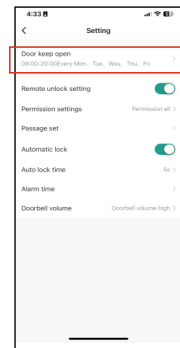

1 Press on settings

2 Door keep open

3 Turn ON Door Keep Open and Customize open time.

4 Can add one more open period

5 can see the details In the Highlighted box.

Setting

Remote unlock setting

Default is on. Once turn off, all the mobile users will not be able to access the lock by APP

Permission setting

Default is Permission all. Can be set Permission admin only.

Passage set

Default is Public. All mobile users have the passage permission. Once turn off, we can give the

passage permission to specific mobile users.

Automatic Lock

Default is on. Automatic Lock on: Pulse Mode Automatic Lock off: Latch Mode
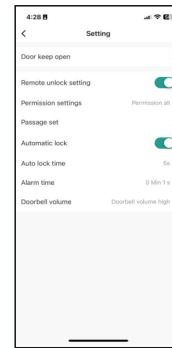
Auto lock time

Default is 5 seconds. It can be set from 0~100 seconds.

Alarm time

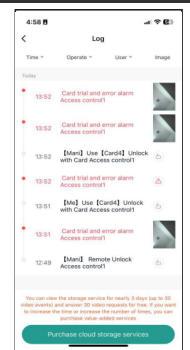**Default is 1 minute.** It can be set from 1 ~3 minutes.

Doorbell volume

It can set device buzzer volume Mute, Low, Middle and High

Log(including open History and Alarms)

Log open history and Alarms can be viewed by clicking on the Notification icon as shown in the picture
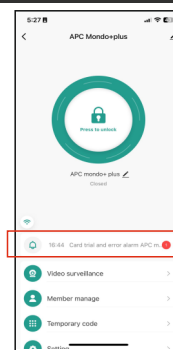
Remove Device & Reset Wifi Blinding

Note:

Disconnect is just removing the device from the APP. The users (card/ fingeprirnt /code) are still retained.

(If Super Master Disconneted, all other memebers will have no access to the device)

Disconnect and wipe data is unbinding the device and reset WiFi.

(Means this device can be connected by other new users)

Method 2 to reset the WiFi

* {Master Code)# 9 {Master Code)#

(To change the Master Code, please refer to another user manual)

APC WARRANTY
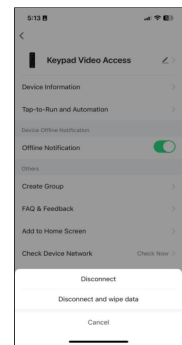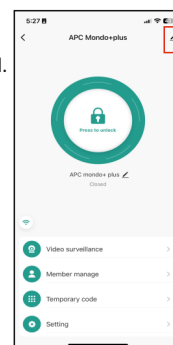APC warrants the original purchasers or the APC system for a period of twelve months from the date of purchase (not installation), the product shall be free of defects in materials and workmanship under normal use.
During the warranty period, APC shall, as its option, repair or replace any defective product upon return of the product to its factory, at no charge for labour and materials.
Any replacement and/or repaired parts are warranted for the remainder of the original warranty,
The original owner must promptly notify APC in writing that there is defect in material or workmanship, such written notice must be received in all events prior to expiration of the warranty.

International Warranty
APC shall not be responsible for any freight fees, taxes or customs fees.

Warranty Procedure
To obtain service under this warranty, AND AFTER CONTACTING APC, please return the item(s) in question to the point of purchase.
All authorized distributors and dealers have a warranty program, anyone returning goods to APC must first obtain an authorization number. APC will not accept any shipment for which prior authorization has not been used.

Conditions to Void Warranty
This warranty applies only to defects in pairs and workmanship relating to normal use. It does not cover:
- Damage incurred in shipping or handling
- Damage caused by disaster such as fire, flood, wind, earthquake or lightning
- Damage due to causes beyond the control of APC such as excessive voltage, mechanical shock or water damage
- Damage caused by unauthorized attachment, alterations, modifications, or foreign objects.
- Damage caused by peripherals (unless such peripherals were supplied by APC)
- Defects caused by failure to provide a suitable installation environment for the products
- Damage caused by usage of the products for purpose other than those for which it was designed.
- Damage from improper maintenance
- Damage arising out of any other abuse, mishandling, and improper application of the products.

Under no circumstances shall APC be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability, or any other legal theory. Such damages include, loss of profits, loss of the product or any associated equipment, cost of capital, cost of substitute or replacement equipment, facilities or services, down time, purchaser's time, the claims of third parties, including customers, and injury to property.

Disclaimer of Warranties
This warranty contains the entire warranty and shall be in lieu of any and all other warranties, whether expressed or implied (including all implied warranties of merchantability or fitness for a particular purpose). And of all other obligations or purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product.

Out of Warranty Repairs
APC will at its option repair or replace out-of-warranty products which are returned to its factory according to the following conditions. Anyone returning goods to APC must first obtain an authorization number.
APC will not accept any shipment whatsoever for which prior authorization has not been obtained. Products which APC determines to be repairable will be repaired and returned. A set fee which APC has been predetermined and which may be revised from time to time will be charged for each unit repaired. Products which APC determines not repairable will be replaced by the nearest equivalent product available at that time. The current market price for the replacement product will be charged for each replacement unit.