

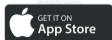


# MONDO

*Wi-Fi Access Control Keypad with card reader*



**Quick Wiring and Programming for Automatic Gates on Page 9**  
**Quick Wiring and Programming for Electric Strikers on Page 12**



## Description

The APC Automation Systems ® Mondo is a standalone access control keypad with Swipe card reader as well as control by APP anywhere in the world. Both Fail Secure and Fail Safe locks can be used and also allows the integration of exit buttons and doorbell systems.

## Features

Ultra-low Power Consumption	Standby current is less than 30mA at 24V DC
Wiegand Interface	WG26 or WG34 input and output
Searching time	Less than 0.1s after reading card
Backlight keypad	Operate easily at night
Doorbell interface	Support external wired doorbell
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: DC12-24V	Standby Current: $\leq 70\text{mA}$ 24V, $\leq 30\text{mA}$ 24V
Card Reading Distance: 1~3cm	Capacity: 2000 users
Working Temperature: $-40\text{ }^{\circ}\text{C} \sim 60\text{ }^{\circ}\text{C}$	Working Humidity: 10%~90%
Lock output load: $\leq 3\text{A}$	Door Relay time 0~99S (Adjustable)

## Wiring Output

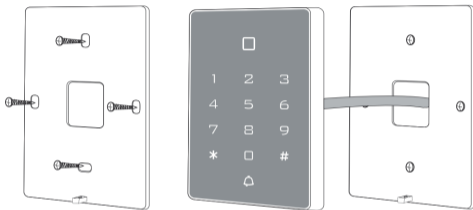
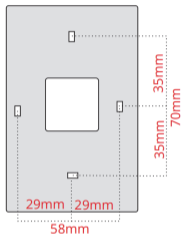
Color	ID	Description
Green	D0	Wiegand Input(Wiegand Output in Card Reader Mode)
White	D1	Wiegand Input(Wiegand Output in Card Reader Mode)
Yellow	OPEN	Exit Button input terminal
Red	+12V	12-24V + DC Regulated Power Input
Black	GND	12-24V - DC Regulated Power Input
Blue	NO	Relay Normally Open
Purple	COM	Relay Common
Orange	NC	Relay Normally Closed
Pink	BELL_A	Doorbell button First Wire
Pink	BELL_B	Doorbell button Second Wire

## 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	
Exit Programming	Red	Beep—
Door Opening	Green	Beep—

## Installation

- Fix the mounting plate as per the four holes on the plate to the surface in which the keypad will be installed.
- Feed the keypad cable through the hole 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 & Deleting the Public Code

A public user is defined by when it is not necessary to have the ability to manage individual users, this is best suited for residential applications when multiple family users share the same code.

To add the public code    \*    Master code    #    9    4 digits code    #

To delete the public code    \*    Master code    #    9    #

 Default factory master code is 999999

## 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 #

Adding a Swipe Card User by the Card Number \* Master code # 1 ID number # 8 digits or 10 digits #

### Adding Standard Users without an ID number


Add card \* Master code # 1 Read card # ..... #

Cards can be added continuously

 Used ID is between 1 to 2000

Add by card number \* Master code # 1 8 digits or 10 digits #

Card number can be added continuously

 Default factory master code is 999999

## Deleting Users


Delete card \* Master code # 2 Read card or 8 digits or 10 digits # 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 ALL users \* Master code # 2 0000 # Delete ALL PIN code & card users except public PIN code.

 Used ID is between 1 to 2000

 Default factory master code is 999999

## 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 # 3 0 # Only the card user could unlock the door, keypad is invalid

By card+PIN code \* Master code # 3 1 # To enable this function, the user PIN code has to be changed.

By card or PIN code \* Master code # 3 2 # Both card user and PIN user could unlock the door (factory default)


 Used ID is between 1 to 2000

 Default factory master code is 999999

## Binded Used (Dual Authentication)

When using Dual Authentication you will need to use new PIN codes and an existing programmed user cards.


\* Master code # 6 Read card 4 digits code #

 Default factory master code is 999999

## Wiegand Reader Mode

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

\* Master code # 52 26/34 # WG26/34 input and output

 Default factory master code is 999999

## Service Free Changes

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


Change the code by user card (Dual authentication users) \* Read card New code # Repeat new Code #

Change the code by ID number \* 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 # 4 1~99 # WG26/34 input and output

 Default factory master code is 999999


## 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 # 50 #


Latching ON/OFF \* Master code # 51 #

 Default factory master code is 999999

## 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 #

 Default factory master code is 999999

## Using Master Add and Delete Cards

### Add Card

Read master add card , Read the 1<sup>st</sup> user card Read the 2<sup>nd</sup> user card ... , Read master add card

**Note:** The master add card is used to add card users continuously and quickly. When you read the master add card at the first time, you will hear short "BEEP" sound twice and the indicator light turns orange, it means you have entered into add user programming. When you read the master add card at the second time, you will hear long "BEEP" sound once and the indicator light turns red, it means you have exited the add user programming.



## Delete Card

Read master delete card , Read the 1<sup>st</sup> user card Read the 2<sup>nd</sup> user card ... , Read master delete card

**Note:** The master delete card is used to delete card users continuously and quickly. When you read the master delete card at the first time, you will hear short "BEEP" sound twice and the indicator light turns orange, it means you have entered into delete user programming. When you read the master delete card at the second time, you will hear long "BEEP" sound once, the indicator light turns red, it means you have exited the delete user programming.

## 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 999999, factory default settings are successful.

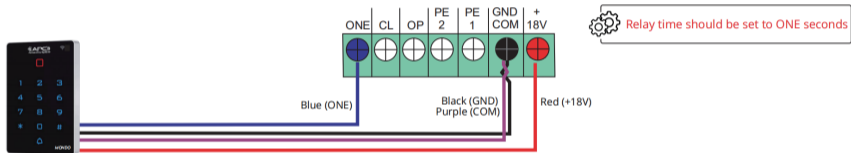
★Registered user data won't be deleted when reset to factory default

## Quick Setup for Automatic Gates

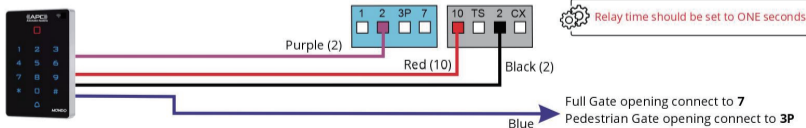
\* 9 9 9 9 9 9 # 4 1 # \* To set the relay time to ONE second

\* 9 9 9 9 9 9 # 9 4 digits code # \* To add your PIN code

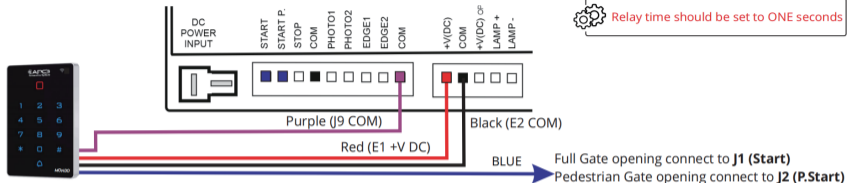
### • APC-SG802-AC Typhoon • APC-SG1600-AC Tsunami • APC-SG3000-AC Tornado



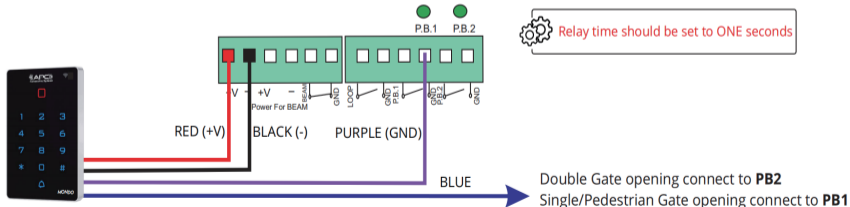
### • APC-P400 Proteus 400



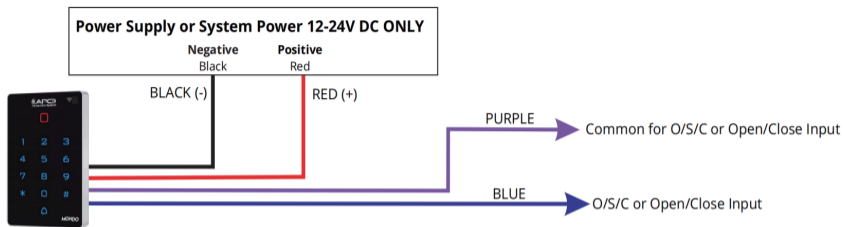
• APC-P450S Proteus 450 Sprint • APC-P500 Proteus 500



• APC-CBSW12 • APC-CBSW24 Swing Gate System



## All Other Automatic Gate Systems

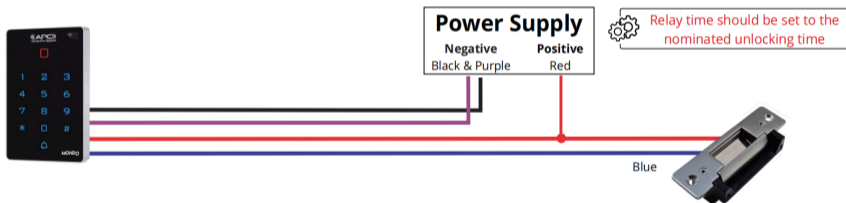


## Quick Setup for Electric Striker

\* 9 9 9 9 9 9 # 4 5 # \* To set the relay time to FIVE seconds

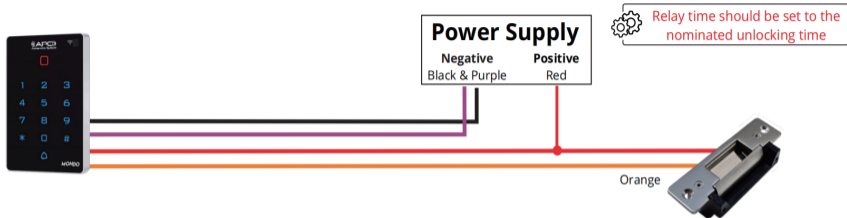
\* 9 9 9 9 9 9 # 9 4 digits code # \* To add your PIN code

## Connection to Electric Striker (Fail Secure Type)



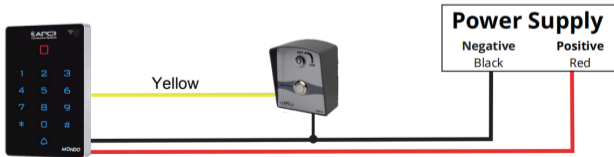
**Note:** Power supply voltage must be suitable according to the electric strikers voltage and amperage requirements and must be within the keypads working parameter of 12-24V DC.

## Connection to Electric Striker (Fail Safe Type)

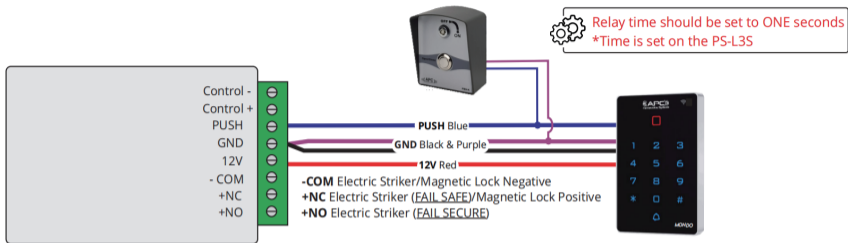


**Note:** Power supply voltage must be suitable according to the electric strikers voltage and amperage requirements and must be within the keypads working parameter of 12-24V DC.

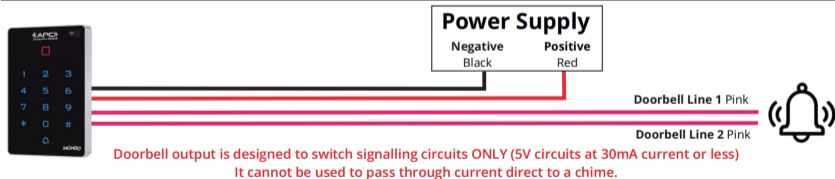
## Exit Button Connection



## Connection to PS-L3S Lock Control System



## Doorbell Connection

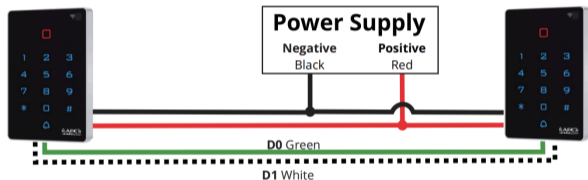


## Data Backup Mode

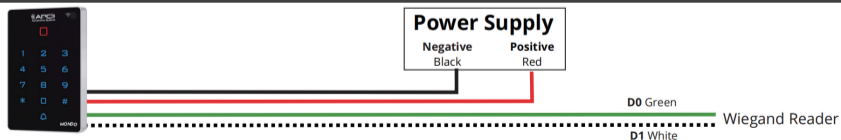
1. Set the device to receive data into Data Input Mode \* Master code # 71 #
2. Set the device to send data into Data Output Mode \* Master code # 70 #

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

**i** Default factory master code is 999999



## Wiegand Connection





## 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



or

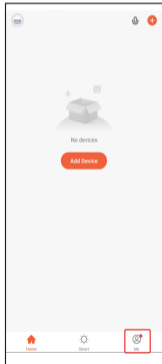


Scan QR code

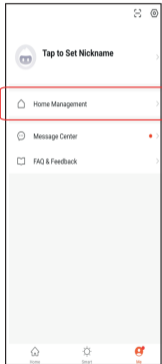
Search TuyaSmart to download APP

## APP Preparation (Home Owners Device)

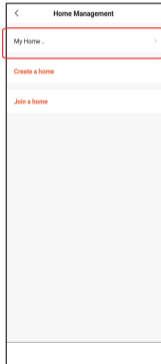
1 Go to "Me"



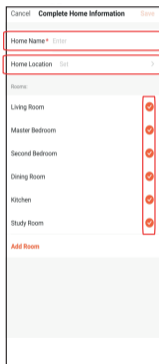
2 Go to "Home Management"



3 Select "My Home..."



4 Name the home



5 Set the Location

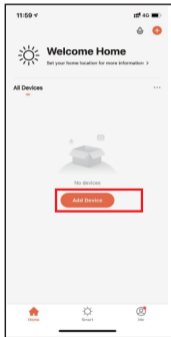
6 Deselect ALL the rooms except the one where the indoor monitor is installed.

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 # 73 #

**i** Default factory master code is 999999

3

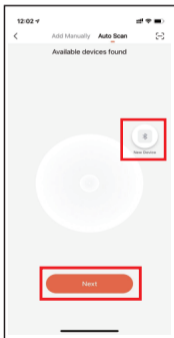
Click Auto Scan  
Ensure Wi-Fi and  
Bluetooth are ON



## Adding the Keypad to the Administrator (Home Owners) Device

4

Once the Mondo has been found press Next



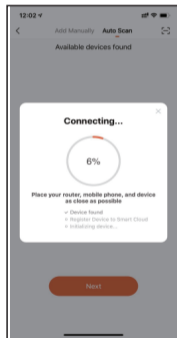
5

Enter the Wi-Fi password



6

Final Configuration



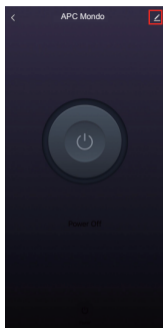
## Sharing with another user (Non Manageable by Admin User)

Note that the only way for the device to be removed from the users APP is for the user to delete it themselves, i.e no Admin Management



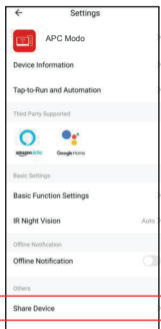
1

Go into the APP and select the Keypad



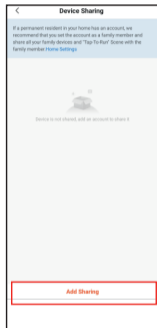
2

Press the edit icon



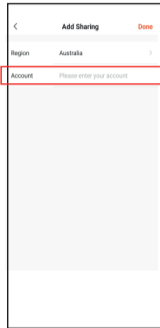
3

Select share device



4

Select Add Sharing



5

Enter the users Tuya account email address then press Done, an invitation will be sent to the userSharing

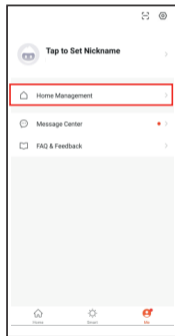
## Sharing with another user (Manageable by Admin User)

Note that the only way for the device to be removed from the users APP is for the user to delete it themselves, i.e no Admin Management

1 Go to "Me"



2 Go to "Home Management"

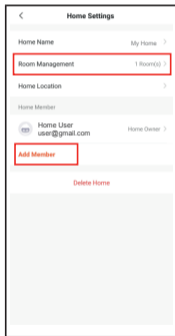


3 Select the home you wish to share

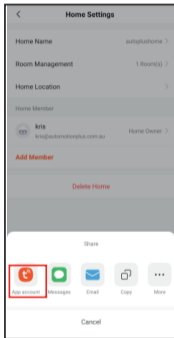


4 Select the rooms you wish to share

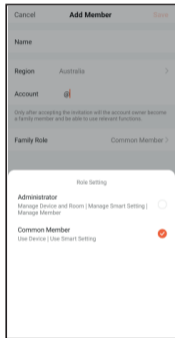
5 Select Add Member



6 Select  
Tuya APP  
Account



7 Input the  
User Name



8 Input the Users Account email

9 Input the Users Account email

**Administrator**

Total Control over keypad including unlocking and adding/deleting users

**OR**

**Common Member**

Control over unlocking ONLY

10 Press **SAVE** an invitation will be sent to the user



### **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 parts 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.

