### 3.1.2 Use the card to release the door

Simply swipe the card on the reader window, and the door will open.

### 3.1.3 To delete the card

There are 3 options to delete a user card or cards, in engineering mode.

a.) Press: [2] [0 0 0 0] [#] to delete all user cards

b.) Press: [2] [Read card] [#] to delete individual user card

c.) Press: [2] [user identification number] [#] to delete individual user card

### 3.2, Valid card and password Mode (301#)

(In this mode, the user can only open the door by the card and password together)

### 3.2.1 To Add User

First add the card:

Press: [1] [read card] [user identification number(000 to 999).] [#] [*]

Second, add the password

Press: [*] [read card] [1234  #  Password  #] [Re-enter Password  #]

(Password must be 4 digit code, from 0000 to 9999)

To add a password for multi users, please repeat the former step (3.2.1) as adding one.

### 3.2.2 To release the door

[Card] + [Password] + [#] , and the door will open.

### 3.2.3 To delete a user

Carry out the same procedure as 3.1.3

### 3.3 Valid card or password Mode (302 #)

(In this mode, the user can only open the door by either the card or the password)

### 3.3.1 To Add User

First add the card:

Press: [1] [read card] [user identification number(000 to 999).] [#] [*]

Second, add the password:

Press: [*] [read card] [1234  #  Password  #] [Re-enter Password  #]

To add a password for multi users, please repeat the former step (3.3.1) as adding one.

### 3.3.2 To release the door

Card , the door will open.  Password # , the door will open.

### 3.3.3 To delete the user

Carry out the same procedure as 3.1.3

## Setting Door Output Relay Strike Time

(Default setting: 6 seconds)

The door relay operating duration time can be set from 0 seconds to a maximum of 99

seconds. The factory default setting is 6 seconds and can be changed by programming the desired relay operation time.  Press: [4] [new time from 00-99 seconds] [#]

## Setting Alarm Signal Output Time

Press: [5] [new time from 00-99 minutes] [#]

## Setting Door Open Detection

Press: [6] [00] [#] to disable this function (factory setting)

Press: [6] [01] [#] to enable this function.

In order for this feature to work, door contacts must be connected. There are 2 programming functions that work together in this mode.

a.) If door is not closed after opening, the keypad buzzer sounds.

b.) If the door is forced open, keypad buzzer sounds and activates the alarm signal output.

## Setting Security Arrangement

There are two levels of keypad security available for the K2.

Press: [7] [01] [#] to read 10 invalid cards or enter 4 wrong passwords in succession, the keypad is locked for 10 minutes.

Press: [7] [02] [#] to read 10 invalid cards or enter 4 wrong passwords in succession, the keypad activates buzzer and alarm signal output.

**To disable this feature:**

Press: [7] [00] [#] factory default setting.

## Resetting To Factory Default Setting

You can revert all settings to the factory default settings, without affecting the users' data. To reset the flash memory (see figure 3), turn off the power, press the K2 on the PCB, and re-power the device, the keypad will give a beep and is now reset to factory default values. ), turn off the power, press the K2 on the PCB, and re-power the device, the keypad will give a beep and is now reset to factory default values.

## Technical Specification

| DC Supply Voltage: | Low voltage input 12~24V AC/DC |
|---|---|
| Current Consumption: | 100mA @ quiescent maximum |
| Door Relay: | 5Amp 12Vdc |
| Alarm output load: | 150mA pull current |
| Memory: | Non volatile EPROM memory |
| Codes: | 1 Master, 1000 cards and 1000 codes |
| Keypad: | 12 keys, 3 LED status indicators |
| Card Types: | EM or EM compatible |
| Induction Distance: | 5-8cm |
| Wiring Connections: | Electric lock |
| | Remote Request to Exit |
| | Door open detection |
| | External Alarm |
| Tamper Protection: | Negative loop, normally closed |
| Keypad Housing: | Metal |
| Operating Temperature: | 0℃ to 60℃ (32°F to 140°F) |
| Dimensions: | 135mm x 58mm x26mm |
| Weight: | 500g |

## Package Listing

| Name | Model no. | Qnty | Remark |
|---|---|---|---|
| Digital Keypad | K2 | 1 | |
| User Manual | K2 | 1 | |
| Flat Head Screws | Φ3mm × 6mm | 1 | Used for front case and back case |
| Wall Fixing Plug | Φ6mm × 27 mm | 4 | Used for fixing |
| Self Tapping Screws | Φ4mm × 27 mm | 4 | Used for fixing |

**Remarks**

AC input, "AC" and "CN" of jump pin- J3 link  DC input, "DC" and "CN" of jump pin- J3 link

Factory default setting is DC input

# K2
# Access Controller

User manual

## Specifications

1:Programmable Functions
  Relay latching or momentary
  Relay strike time
  Change Codes 1 master, 1000
  users & 1000 proximity cards
  Door open detection

2:Programmable Timers
  Door relay time 00-99 seconds
  Door open detection 00-99 seconds
  Alarm time 00-99 minutes

3:Wiring Connections
  Electric lock
  External bell
  External Push Switch
  Magnetic Contacts
  Alarm
4:Keypad
  12 keys with backlight
5:Programming memory:
  Non volatile EPROM memory

### IMPORTANT INFORAMTION

There are no user serviceable parts contained within the K2 access control keypad.

If holes are to be drilled before mounting onto a wall, check for hidden cables and/or pipes before drilling. Use safety goggles when drilling or hammering in cable clips.

Every effort has been made to provide accurate information, however slight variations can occur. We also reserve the right to make changes for product improvement at any time

**NOTE:**
please read these instructions carefully before attempting to install the k2

### Internal Interface Circuit

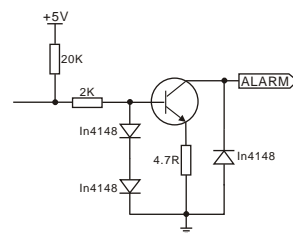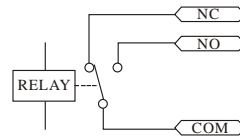1.Alarm output interface (See Figure 1)   2.Electric lock interface (See Figure 2)



Figure 1

Figure 2

.1.

---

## Mounting

1.Attach the rear plate to a single or double gang electrical box or secure to the wall firmly with at least three flathead screws.
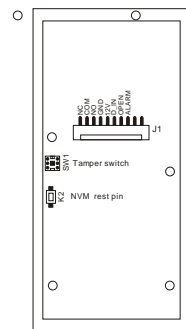2.When wiring has been completed, attach the front cover to the rear plate.
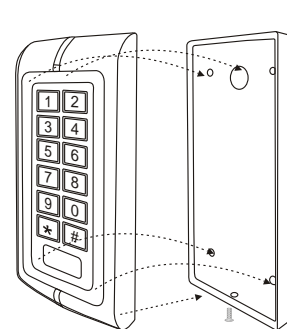


Figure 3                                Figure 4

The front cover can be permanently secured by using the short screw supplied

## Wiring

1.Unplug the cable harness and connect the necessary cables, (See Figure 3).
2.Tape any wires that are unused.

3.Plug in the cable harness on the PCB , (See Figure 3)
4.attach the front cover(See Figure 4)

### Terminal Wire Connector 1 Function

| 10 |       | Green  |                                         |
|----|-------|--------|-----------------------------------------|
| 9  |       | White  |                                         |
| 8  | ALARM | Grey   | Alarm Switched negative when active     |
| 7  | OPEN  | Yellow | To Door EXIT Request Button Then Negative |
| 6  | D_IN  | Brown  | To Door Contact Then To Negative        |
| 5  | 12V   | Red    | (+) 12Vdc Positive Regulated Power Input |
| 4  | GND   | Black  | (-) Negative Regulated Power Input      |

.2.

---

| 3 | NO  | Blue   | Door Strike Relay N/O  |
|---|-----|--------|------------------------|
| 2 | COM | Purple | Door Strike Relay Com  |
| 1 | NC  | Orange | Door Strike Relay N/C  |

Do not plug the power supply or transformer into the mains until all wiring has been completed and the front cover secured.



Note: We advise you special adaptor, it will make system work more stable!
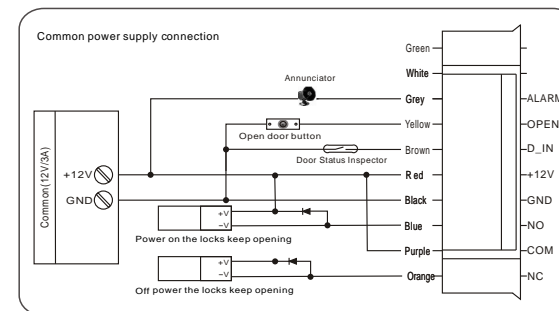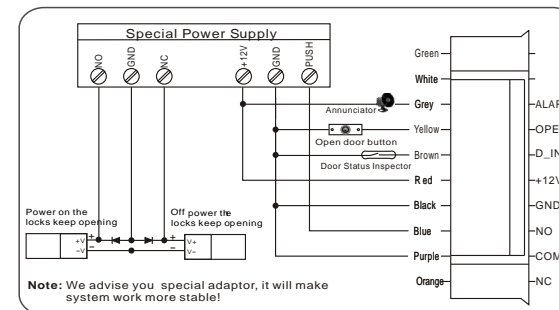


## Power Up

1.After all wiring is complete and the unit face plate is attached to the back plate, apply 12Vdc power to the unit. The red LED will be flashing.

.3.

---

## Engineer Programming Mode

**1. To enter programming mode**
Press: [*] [9999] [#]  quickly and within 5 seconds, The red and green LED will flash rapidly then slowly. If no key is pressed in 30 seconds the unit will exit programming mode. (**Note:** * button is the same as door 'bell' symbol button)

**Note:**
Press: [*] to save changes and exit from the engineer programming, when all programming has been completed, otherwise changes will not be saved.

**2. Master code: (Default code 9999)**
To change Master code: In programming mode
Press: [0] [new master code] [#] [re-enter new code] [#] [*]  Upon acceptance the red & green (yellow) LED lights and stops flashing. After pressing the [*] button the keypad will exit programming mode and the red LED will flash. Note: the master code must be 4-8 digit number.

(**Note:**
1. All the steps below(from 3-7) are done in the Programming mode, that is [*] [Master code] [#] .
2. In each step when you finished the operation, if you want to save and exit from the programming mode, just press [*] ;  if you want to continue the programming, just go ahead to the next step directly until you finished, last press [*] to save and exit.)

**3. User Operation Mode for access**
There are 3 different options: Card only, card and password, Card or Password
The optioned used is common to all users.(**Note:** you can only choose one of them)
1. Valid card only, Press:  [3] [0 0] [#]
2. Valid card and password, Press:  [3] [0 1] [#]
3. Valid card or password, Press:  [3] [0 2] [#]

**3.1   Valid Card Mode (300#)**
  ( In this mode, the user can only open the door by the card)
  **3.1.1 To Add User card Press:**
  [1] [read card] [user identification number (000 to 999).] [#]
  ( Press * if you want to save and exit)
**Note:** the user identification must be a unique 3 digit number, this is not their access password, it is just a user ID. And the ID number must be different on each card.
**To add more than 1 card at a time:**
Enter the programming mode then press:
  [1] [read card 1] [user ID number] [read card 2] [user ID number] ……[read card n] [user ID number(000 to 999)] [#]

.4.