

## Enrol a Master Card

If the system is used with proximity cards, a Master Card can be used enter Programming Mode. To create a Master Card:

- While the system is in Programming Mode, press \*7 (Green LED on the left flashes)
- Present the required card to the reader (beeps once, yellow LED remains solid). This card will now be your Master Card.

It is now possible to enter Programming Mode by presenting the Master Card rather than entering the Master Code twice. It is not possible to open doors using the Master Card.

## Enrol Users for Relay 2

**Relay 2 only supports 'Proximity OR PIN' mode, and is restricted to 10 Users.**

- While the system is in programming mode, press \*4, and select a user number between 00 and 09 (yellow LED on the right flashes)
  - If the user number is available the left LED is solid green.
  - If the user number is unavailable the left LED turns solid red. Press #, and select a new user number between 00 and 09
- Present a new card OR enter a new PIN (beeps once, yellow LED remains solid)

## Removing Users from Relay 1

- While the system is in programming mode
- Enter the user number to be removed (000 to 999).
- Press \*\* to remove the data (beeps once, left green LED solid, right LED flashes)

## Removing Users from Relay 2

- While the system is in programming mode, press \*4
- Enter the user number to be removed (00 to 09).
- Press \*\* to remove the data (beeps once, left green LED solid, right LED flashes)

## Change PIN Length (Default = 4 digit)

**IMPORTANT! Changing the length of the Master Code will permanently delete all PINs from the Reader. All PINs must be the SAME length as the Master Code**

- While the system is in programming mode, press \*9
- Press 04 (beeps once, right Yellow LED flashes)
- Press the required length for the Master code (i.e. 04, 05 or 06).

## Reset the Master Code to default

- Turn off power, press and hold #, and power on again
- The unit will emit a long beep
- When the right LED shows green the # key can be released.

## Remove All Users

- While the system is in Programming Mode, press \*8 followed by 88

## Reset Controller to Factory Defaults

- While the system is in Programming Mode, press \*8 followed by 99 to default the unit

LOL-CS-KP800

## Introduction

The KP800 is a standalone Access Control system, with integral proximity card reader & keypad. It can be configured so users can gain access with Card, PIN or, for a higher level of security, card AND PIN (called two factor authentication).



The product supports up to 1000 Users, making it ideal for Access Control applications. A second relay is also provided to set/unset an intruder alarm system, or for a second door.

## PLEASE NOTE:

- Request to Exit (REX) buttons MUST have NORMALLY OPEN voltage free contacts.
- The lock MUST have a Metal Oxide Varistor (MOV) fitted across the coil to suppress Back-EMF. Failure to do so will void warranty. 2 MOVs are supplied in the spares pack.
- The KP800 can powered from an AC or DC source. Please ensure that Magnetic locks etc. are compatible with the type of power supply being used.
- Relay 2 only supports 10 Users, and is not as configurable as Relay 1. Relay 2 is commonly used for setting and unsetting an intruder alarm system, or control of a second door where the limitations are sufficient.

## Technical Specifications

- Input Power Supply = 12V-24VAC/DC
- Current Draw = 70mA@12VDC, 35mA@24VDC
- Relay Rating 2A/30VDC ; 0.6A/120VAC
- Operating Frequency 125 KHz
- 2 inputs for Request to Exit buttons + 1 input for door contact
- 2 relay outputs (voltage free changeover contacts)
- User Memory: 1000 (Relay 1) + 10 (Relay 2) proximity cards / fobs / PINs
- Operating Temperature: -20°C to +70°C
- Ambient Humidity: 5%~95% (non-condensing)
- Read Range: Up to 50mm (in a noise free environment)

## Installing the KP800

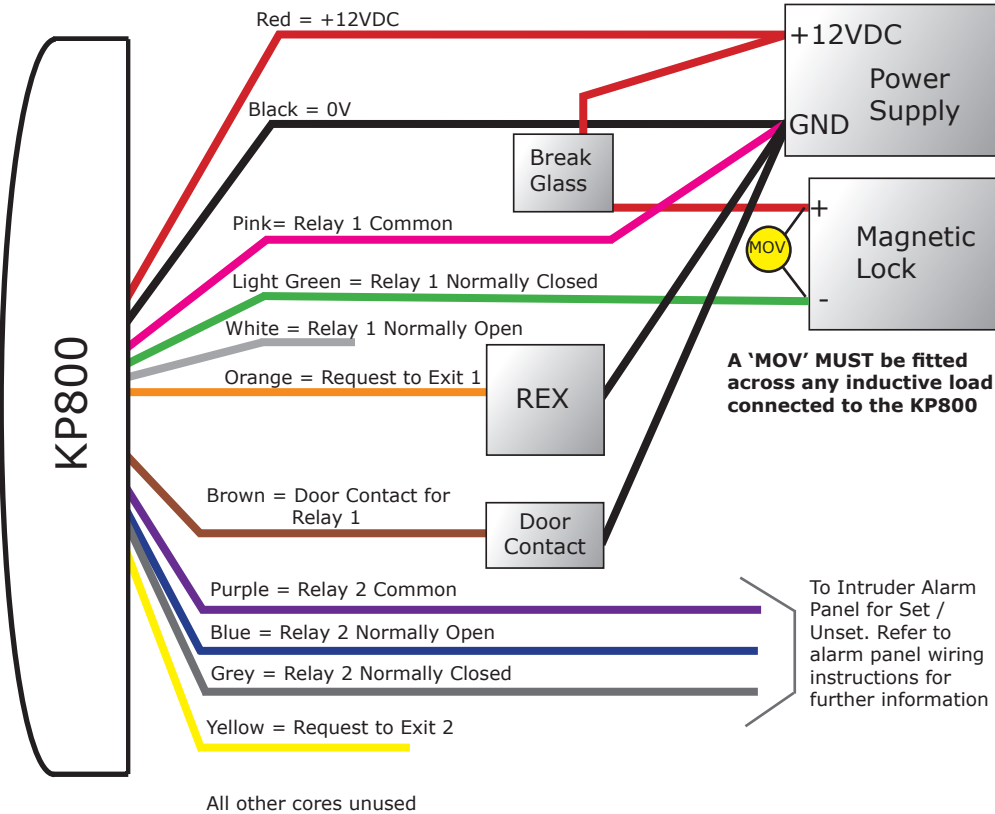
### Step 1 – Mount the KP800

To aid installation, 4 screws and wall plugs are provided in the spares pack supplied with this product.

- Use the Allen key provided in the spares pack to remove the security screw and separate the cover from the backplate.
- Using the backplate as a template, drill 4 holes and fit the 4 wall plugs supplied (if required).
- Drill a 5th hole aligned with the centre hole in the base for the 'pigtail' cable.
- Mount the backplate with the screws supplied.
- Feed the 'pigtail' cable through the cable entry hole and re-fit the cover to the backplate using the Allen key.

### Step 2 – Wiring

The KP800 has 2 relay outputs (Relay 1 and Relay 2) each with voltage free changeover contacts. Each relay has an associated pushbutton input for a Request to Exit (REX) button, which must be switched to 0V when the REX is pressed.



### Step 3 – Configuring the KP800 – Essential Programming

#### Programming mode

Programming Mode is used to configure the system. Enter the Master Code twice in succession (or present a Master Card) and the yellow LED on the right will light (not flash) to indicate that the system is in Programming Mode.

To exit Programming Mode, press # or wait for 30 seconds without pressing any keys.

NOTE: To speed up programming, it is possible to enter Programming Mode and make several changes without having to exit Programming Mode.

### Set the Door Release Time (Default = 1 second)

The Door Release Time can be set separately for relays 1 and 2, from 01 to 99 seconds. Setting the Door Release Time to 00 will select Latched mode (i.e. present card once to unlock door, present card again to lock door).

- While the system is in programming mode, press \*1 to adjust the duration for Relay 1 (yellow LED on the right flashes)
- Enter the Door Release Time between 00 and 99 (beeps once, yellow LED remains solid)
- If required, press \*5 to adjust the duration of Relay 2 (yellow LED on the right flashes)
- Enter the Door Release Time between 00 and 99 (beeps once, yellow LED remains solid)
- Press # to return to the normal standby condition.

### Change the Master Code (Default = 1234)

To avoid compromising the security of the installation you MUST change the default master code to a code specific to this site.

- **i** While in programming mode, press \*3 (the yellow LED on the right flashes)
- Enter the new master code twice e.g. 7034 7034 (the controller beeps once, yellow LED remains solid to indicate that the system has returned to programming mode)

**USE THE NEW MASTER CODE TO ENTER PROGRAMMING MODE NEXT TIME.**

### Enrol Users for Relay 1

Depending on the mode selected in Step 4, you may be able to enrol a card AND/OR a PIN for each user.

- While the system is in programming mode
- Select a User number between 000 and 999 (yellow LED on the right flashes)
  - If the user number is available the left LED is solid green.
  - If the user number is unavailable the left LED turns solid red. Press #, then select a new user number between 000 and 999.
- It is then possible to learn in the new details as follows:
  - Proximity card only: Present a new card
  - Proximity card OR PIN: Present a new card OR enter a new PIN
  - Proximity card AND PIN: Present a new card AND enter a new PIN
  - In each case, the KP800 will beep once and the yellow LED will remain solid

### Step 4 – Configuring the KP800 – Optional Programming

#### Set the Access Mode (Default = Proximity OR PIN)

The KP800 can be configured for Prox only, Prox **OR** PIN, or PIN **AND** Prox.

- While the system is in Programming Mode, press \*0 (yellow LED on the right flashes)
  - Press 00 for Proximity card only (used when every user has a card for access)
  - Press 01 for Proximity card OR PIN (used when some users have a card and other users have a PIN for access)
  - Press 02 for Proximity card AND PIN (used for two factor authentication when all users have a card and PIN for access)
- When the required mode has been selected, the units will beep once and the yellow LED will remain solid to indicate that the system has returned to programming mode