

# KP-KR500

## Standalone Access Control Keypad



**User Manual**

# Introduction

The KP-KR500 is a single entry Access Controller with integrated 4 PIN keypad and card reader, housed in a strong Zinc Alloy electroplated case, supports up to 1000 users in multiple access configurations (Card only, Card or PIN, Card + PIN). The built-in card reader supports EM 125KHz frequency cards or fobs.

## Features

12v dc, IP45

Vandal resistant metal enclosure

One programmable relay output

Standalone

1000 users (4 PIN)

LED Indication

Integrated alarm & buzzer output

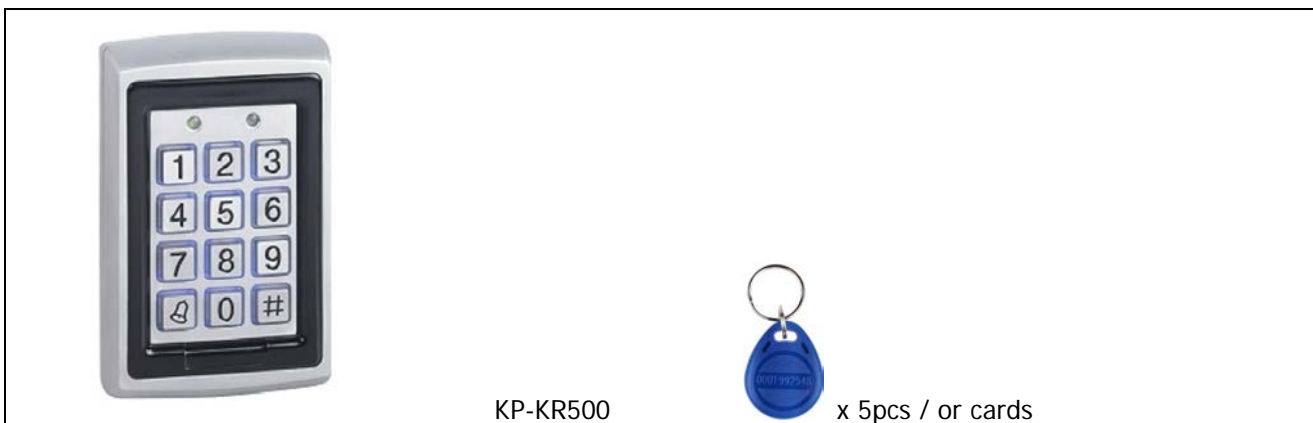
Anti-tamper alarm

Latch Mode to hold door or gate open

## Specifications:

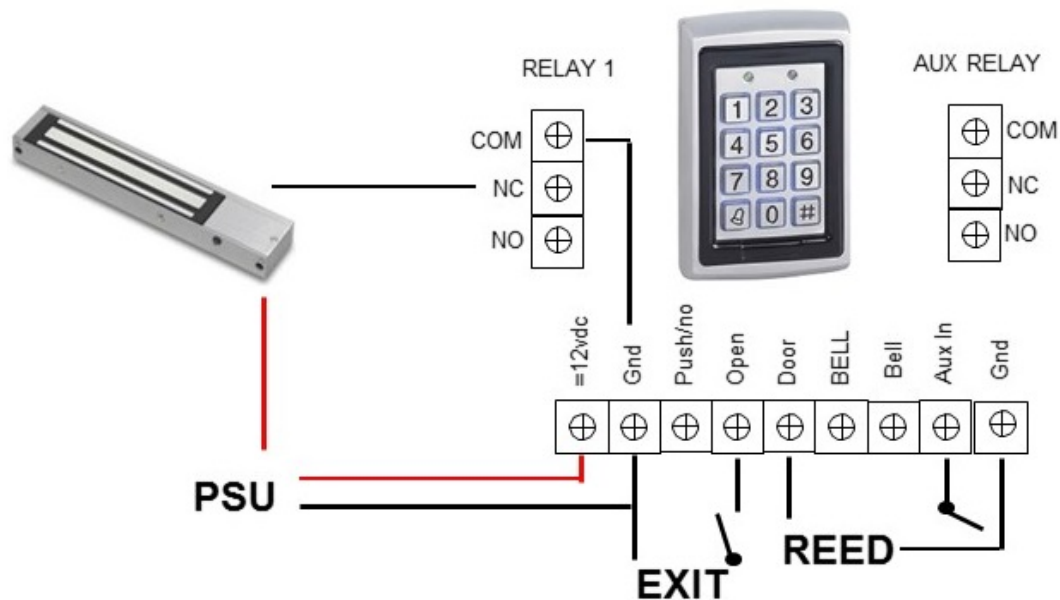
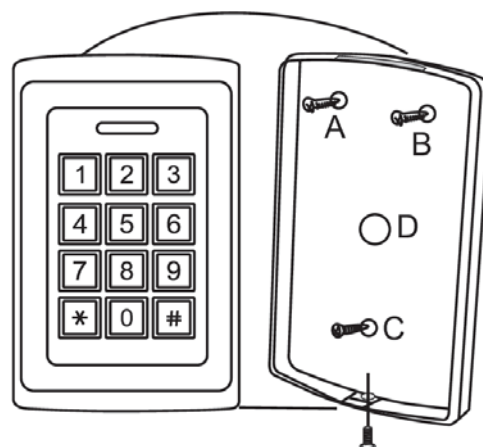
<b>User Capacity</b>	<b>1000 Cards/PINS</b>
<b>Operating Voltage</b> Idle Current Active Current	<b>12V DC</b> 50mA 100mA
<b>Keypad</b> PIN Length	<b>12 Key (3*4)</b> 4 digits
<b>Proximity Card Reader</b> Radio Technology Read Range	<b>EM</b> 125KHz Industry Standard Proximity Card 1-5cm
<b>Wiring Connections</b>	Electric Lock, Exit Button, DOTL, External Alarm, Wiegand (out)
<b>Relay</b> Adjustable Relay Output Time Lock Output Load Alarm Output Load	<b>ONE (NO, NC, COM)</b> 1-99 Seconds (5 seconds default) 3 Amp Maximum 3 Amp Maximum
<b>Environment</b> Operating Temperature Operating Humidity	<b>Indoor</b> -10°C -60°C (14°F - 140°F) 10% - 90% Non-Condensing
<b>Physical</b> Surface Finish Dimensions Unit Weight Shipping Weight	<b>Zinc-Alloy Enclosure</b> Powder Coat 119L x 75W x 21H (mm) 400g 460g

## Contents



## Installation

- > Remove the back cover from the unit
- > Drill 3 holes (A, B, C) on the wall for the screws and one hole for the cable
- > Remove the supplied rubber bungs to the screw holes (A, B,C)
- > Fix the back cover firmly on the wall with 3 flat head screws
- > Thread the cable through the cable hole (D)
- > Attach the unit to the back cover



LOCKING TYPE - FAIL SECURE N/O contact is used on Relay 1 for fail Secure locking  
 EXIT BUTTON- N/O going Closed Contacts  
 BELL- N/O going closed when bell is pressed  
 DOOR- Reed switch must be N/C when door is closed, if left open alarm will sound when door sensor is enabled  
 AUX-IN - N/O going closed activates the AUX relay and sound alarm on connection

# Standalone Operation

## Programming 1 ----- Configure

Change the configure settings according to your application (optional). Multiple configuration settings can be changed at one time: Enter program mode, change the required settings, then exit program mode

### Set / Change Master Code

The Master Code is a 6 digit code used to prevent unauthorized access to the system. To program the KP-KR500, the administrator will need a Master Code (**Factory default: 881122**). We highly recommend immediate update and record your new Master Code

Programming Step	Keystroke Combination
1. Enter Programming Mode	# (881122)
2. Update Master Code	0 (New Master Code) (Repeat New Master Code)
3. Exit	#

### Set Access Configuration

There are 3 types of access configurations for the KP-KR500 **\*\*Pin Numbers can only be added to once card has been added to slot\*\***

- > **Card Only:** The User must present a valid Card to the KP-KR500 in order to be granted access
- > **Card + PIN:** The User must first present a valid Card to the KP-KR500 and then enter their PIN code followed by the # key, in order to be granted access
- > **Card or PIN:** The User must present a valid Card to the KP-KR500 or enter their PIN code followed by the # key, in order to be granted access

Programming Step	Keystroke Combination
1. Enter Programming Mode	# (Master Code)
2. Card only OR 2. Card + PIN OR 2. Card or PIN	1 0  1 1 #  1 0 (Factory Default)
3. Exit	#

### Set Relay Configuration

The relay configuration sets the behavior of the output relay on activation

Programming Step	Keystroke Combination
1. Enter Programming Mode	# (Master Code)
2. Pulse Mode  OR 2. Latch Mode	2 (01-99) # Factory Default: 05 Seconds  Not available on this model
3. Exit	#

## Set Door Open Detection

### Door Open Too Long (DOTL) warning

When used with an optional magnetic contact or built-in magnetic contact of the lock, if the door is opened normally, but not closed after 1 minute, the internal buzzer will beep automatically to remind people to close the door and continue for 1 minute before switching off automatically

### Door Forced Open warning

When used with an optional magnetic contact or built-in magnetic contact of the lock, if the door is opened by force, or if the door is opened after 20 seconds of the electro-mechanical lock is not closed properly, the inside buzzer and alarm output will both operate

Programming Step	Keystroke Combination
1. Enter Programming Mode	# (Master Code)
2. Disable Door Open Detection <b>OR</b> 2. Enable Door Open Detection	<b>8 0</b>  <b>8 1 #</b>
3. Exit	*

## Set Keypad Lockout or Alarm Output

**Keypad Lock:** If there are 10 invalid cards/incorrect PIN numbers made within a 10 minute period, the keypad will lockout for 10 minutes

**Alarm Output:** If there are 10 invalid cards/incorrect PIN numbers made within a 10 minute period, the alarm will operate

Programming Step	Keystroke Combination
1. Enter Programming Mode	# (Master Code)
2. No Keypad Lockout or Alarm Output <b>OR</b> 2. Keypad Lockout <b>OR</b> 2. Alarm Output  Set alarm time	Not available on this model  Not available on this model  <b>82</b>  <b>(0-99)</b>
3. Exit	#

**To Remove Alarm:** Read valid card or enter Master Code

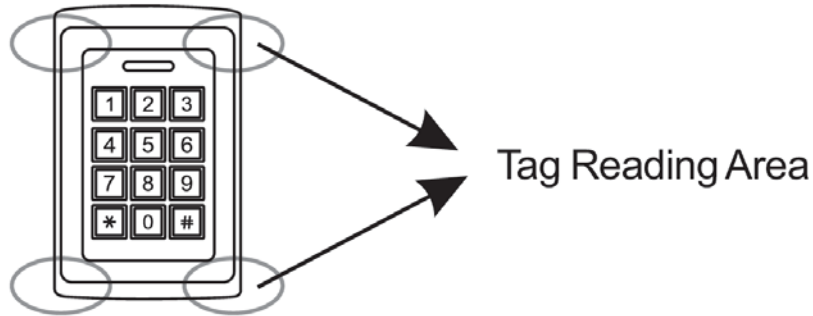
# Programming 2-----Program Cards and PINS

Programming will vary depending on the access configuration. Follow the instructions according to your access configuration

## GENERAL PROGRAMMING INFORMATION

**User ID Number:** Assign a user ID number to the access code in order to keep track of the users of access cards or PINS. The user ID number can be any number from 1-1000

- > **Proximity Card:** 125 KHz industry standard 26 bit EM Proximity Card
- > **Key fob:** The reading distance for key fobs is limited, therefore please present the key fob near the black frame, and the areas are as below:



**Keypad PIN:** The PIN can be any 4 digits between 0000-9999 (except 1234 which is reserved for Public Pin)

### Add Card Users

Programming Step	Keystroke Combination
1. Enter Programming Mode	# (Master Code)
2. Add Card: Using Auto ID (Allows KP-KR500 to assign Card to next available User ID number)	<b>5 (User ID / slot) (Read show Card)</b> The user ID is any number from 001-1000 Cards can be added continuously
<b>OR</b>	
2. Add Card: Select Specific ID (Allows manager to define a specific User ID to associate the card to)	<b>5 (User ID / slot) (Read / show Card)</b> The user ID is any number from 001-1000
3. Exit	#

### Delete Card Users

Programming Step	Keystroke Combination
1. Enter Programming Mode	# (Master Code)
2. Delete Card by Card	<b>7 (Read Card)</b> Cards can be deleted continuously
<b>OR</b>	
2. Delete Card by User ID	<b>7 (User ID / slot)</b> The user ID is any number from 1-1000 slots can be deleted continuously
3. Exit	# #

**PIN ONLY      \*\*MAKE SURE CARD HAS BEEN ADDED AS ABOVE FIRST\*\***

<b>Programming Step</b>	<b>Keystroke Combination</b>
1. Enter Programming Mode	# (Master Code)
2. Add a PIN	1 3
3. Exit	#
4. In Normal Mode PRESS AND HOLD	# (2 beeps)
5. Show card that has been added	(Read / show Card) 0000
6. Add pin (4 digit)	(New PIN) (New PIN)
3. Exit	#

**Add a Card+ PIN User**

<b>Programming Step</b>	<b>Keystroke Combination</b>
1. Enter Programming Mode	
2. Add a Card by User ID	
3. Add PIN	
3. Exit	*

**Delete Card Pin by User ID**

Deleting by ID number will clear cards and PINS

<b>Programming Step</b>	<b>Keystroke Combination</b>
1. Enter Programming Mode	# (Master Code)
2. Delete Card / PIN by User ID	7 (User ID)
3. Exit	#

# Reset

**To Reset to Factory Default & Erase all Users**

This will delete ALL User data

1. Enter Programming Mode by press: #(Master Code)
2. Press 86
3. Exit: \*

All configuration data is retained