

# Wiring the LMSC1000 to KPR2000

When using the KPR2000 in stand alone mode, it essentially becomes it's own Access Control device. You are able to connect Wiegand devices such as card readers, Passport receivers and RFID readers. Be aware that we are not able to keep a transaction history or able to program credentials remotely. For this reason, this is intended as a basic low budget setup. In this article, we will walk you through how to get the LMSC1000 RFID Reader to work with the KPR2000 Keypad/Proximity Card Reader.

## Wiring the KPR2000 and the LMSC1000

1. Connect the LMSC1000 antenna to the Wiegand Interface Module
  - Red = +12V
  - Black = -12Vdc (GND)
  - Green = SER IN
  - White = SER OUT
  - Yellow = GND
  
2. Connect the KPR2000's Wiegand wires to the LMSC1000 Wiegand Interface Module
  - White = Data 1
  - Green = Data 0
  - Pink = GND (Ground)
  
3. Wire the KPR2000 to the gate operator.  
**Note:** if connecting to a magnetic lock, use the Orange wire in place of the Blue.
  - Purple = Common
  - Blue = Normally Open (NO)
  - Orange = Normally Closed (NC)
  
4. Wire the KPR2000's Red and Black wire to a 12-24 Volts DC or 12-18 Volts AC power supply. We recommend using power supply part number PS12D2A.
  
5. Wire the LMSC1000's power supply (included). It is polarity sensitive so be sure to wire the solid black wire to +12V and the Black wire with the white dashes to -12Vdc (GND).

## Initial KPR2000 setup - [KPR2000 Installation and Setup Manual](#)

**Important:** If this is a new install, these settings are already set by default. Skip the Initial KPR2000 setup and proceed to the Initial LMSC1000 setup. The default master code on a KPR2000 is 888888.

- Set Wiegand input/output option to 26 bit.
  1. Enter Program Mode - \* (master code) #
  2. Set Wiegand Format - 9 26 #
  3. Exit Program Mode - \* \*

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- Set 26 bit format facility code to ignore.
  1. Enter Program Mode - \* (master code) #
  2. Set Facility Code to ignore - 8 0 #
  3. Exit Program Mode - \* \*

**Note:** The LED on the KPR2000 will indicate if you are in standby or in programming. A flashing red LED light indicates the KPR is in standby, and a solid red LED light indicates that its in program mode. If you are in the programming mode and you made a mistake that you will need to start the programming sequence from the beginning, press the \* continuously until you see a flashing red light.

### **Initial LMSC1000 setup - [LiftMaster Long Range RFID Reader LMSC1000 manual](#)**

- Set the Wiegand Retransmission Delay to 15 seconds.
  1. On the Wiegand Interface Module, switch DIP switches 1-4 to the "ON" position.  
Note: Switches set away from the numbers are in the "ON" position.
  2. Cycle power to the Wiegand Interface Module.

### **Adding a single RFID tag to the KPR2000**

**Note:** User ID numbers can be any number between 1 and 2000. Recording of User ID is critical, so it is highly recommended to write them down or enter them into a spreadsheet. The User ID is required to delete an RFID tag that has been programmed into the KPR2000. Please see the KPR2000 manual for more information on how to delete users.

1. Enter Program Mode - \* (master code) #
2. Program tag ID number - 5 (User ID) # (3 digit facility code) + (5 digit ID Number) # 1 #  
**Note:** Add leading zeros if the facility code is less than 3 digits long. For example, a tag with facility code 80 must be entered as 080.
3. Exit Program Mode - \* \*

### **Bulk adding RFID tags to the KPR2000**

1. Enter Program Mode - \* (master code) #
2. Program tags - 5 (User ID) # (3 digit facility code) + (First 5 digit ID Number) # (Quantity) #  
**Note:** Add leading zeros if the facility code is less than 3 digits long. For example, a tag with facility code 80 must be entered as 080.
3. Exit Program Mode - \* \*

### **Notes**

- Use 18 AWG shielded wiring for Wiegand and Power.
- Do not wire the KPR2000's black wire with the pink wire together. Only the Pink wire is used for Wiegand ground.
- Because the KPR2000 can't tell you what tag is assigned to a user, keep a separate sheet to keep track of Users you've assigned tags to.
- The KPR2000 is a dual purposed keypad. You can use PINs in conjunction with RFID tags.

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