User Manual of EM Code Locker Lock

- **There are two modes available for choosing in EM code locker lock: Public Mode and Home Mode.**
- **There are two unlocking methods for choosing: single-unlocking method and double-unlocking method**

Part 1: EM Code Locker Lock in Public Mode

Lock in publick mode has: 1 group of master password, 1 group of temporary password, 1 master card and 1 temporary card.

Password: 4~15 bits

I.   Default Status:

Press the reset button on PCB for 5 times constantly, lock would turn into default status:

Master password: 12345678; Lock in Home mode, Single unlocking method.

II. Swift Lock mode from Home mode to Publick mode:

Master Password + Key button + 7 + Key button: Lock is shift into Public mode and in Keep-open state.

III. Operations:

A. **Master card and Master password setting:** (Lock in Keep-open state and in Locked-state both workable)

1. Adding Master card:

   When lock in Default status, the first card read by the lock reader is the master card.

2. Changing Master Password:

   Original master password + Key button + 1 + New Master password + Key button + Confirming new master password + Key button

B. **Adding temparary Password and card:**

1. Adding temparary password (when lock with single-unlocking method)

   New Password + Key button + confirming new password + Key button: After this operation, lock would be closed.

2. Adding temparary card (when lock with single-unlocking method)

   Take any EM4100 card to be ready by the lock sensor: After this operation, lock would be closed.

3. Adding temparary password and card (when lock with double-unloking method)

   3.1 New password + Key button + confirming new password + Key button, then swipe an EM card: After these operations, lock would be closed.

   3.2 Swipe an EM card, then put in new password + Key button + confirming the new password + Key button: After these operations, lock would be closed.

   These two ways are both for adding temparary password and card to open lock together.

C. **Lock setting:**

1. Shifting between Home mode and Public mode:

   Master password + key button + 7 + key button

2. Shifting from Single-unlocking method to Double-unlocking method:
   Master password + key button + 6 + key button
3. Shifting from Double-unlocking method to Single-unlocking method:
   Master password + key button + 5 + key button

D. Unlocking:
   1. With single-unlocking method:
      Temparary password(or master password) + Key button: Lock changed into keep-open state, temparary password and temparary card both become invalid.
   2. With Double-unlocking method:
      2.1 Master password + Key botton; or swipe the master card : Lock changed into keep-open state, temparary password and temparary card both become invalid.
      2.2 Temparary password + Key button + swipe temparary card: Lock changed into keep-open state, temparary password and temparary card both become invalid.
      2.2 Swipe temparary Card + Put in Temparary Password + Press key button: Lock changed into keep-open state, temparary password and temparary card both become invalid.

Part 2: EM Code Locker Lock in Home Mode

Lock in publick mode has: 1 group of master password, 200 groups of unlocking password (numbered from 001 to 200), 1 master card and 200 unlocking cards (numbered from 001 to 200)
Password: 4~15 bits

I. Default Status:
   Press the reset button on PCB for 5 times constantly, lock would turn into default status:
   Master password: 12345678; Lock in Home mode, with Single-unlocking method.

II. Swift Lock mode from Publick mode to Home mode:
   Master Password + Key button + 7 + Key button: Lock is shifted into Home mode and in locked state.

III. Operations:
A. Master card and Master password setting:
   1. Adding Master card:
      When lock in Default status, the first card read by the lock reader is the master card.
   2. Changing Master Password:
      Original master password + Key button + 1 + New Master password + Key button + Confirming new master password + Key button
B. Adding unlocking password and unlocking card:
   1. Adding unlocking password:
      Master password + Key button + 8 + number(001~200) + key button + unlocking password+ Key button + Confirming unlocking password + Key button
      (Unlocking passwords could be added continuously)
   2. Adding unlocking card:

Swipe master card on lock sensor for twice, then Swipe the card you want to set as unlocking card.

(Unlocking cards could be added continuously)

C. **Deleting unlocking cards and password:**

1. Deleting unlocking password:

Master password + Key button + 4 + number of the unlocking password (001~200) + Key button + confirming number(001~200) + key button: Passwords could be deleted continuously.

2. Deleting unlocking card:

Swipe the master card for twice + press button 4 + number of that unlocking card (001~200) + Key button + confirming number (001~200) + Key button: Unlocking cards could be deleted continuously.

3. Deleting all of the unlocking passwords:

Master password + key button + 0 + key button

4. Deleting all of the unlocking password:

Swipe master card for twice + press 0 button + key button

D. **Lock setting:**

1. Shifting between Home mode and Public mode:

Master password + key button + 7 + key button

2. Shifting from Single-unlocking method to Double-unlocking method:

Master password + key button + 6 + key button

3. Shifting from Double-unlocking method to Single-unlocking method:

Master password + key button + 5 + key button

E. **Unlocking:**

1. With Single-unlocking method:

1.1 Swipe any unlocking card or master card: Lock could be opened and then locked autometically after 5 seconds.

1.2 Put in any group of unlocking password or master password: Lock could be opened and then locked autometically after 5 seconds.

1.3 During the 5 seconds when the lock is open (when lock bolt is in the lock body), you could change the unlocking password:

Press 1 button + new unlocking password + Key button + confirming the new password + Key button

2. With Double-unlocking method:

2.1 Master password + Key botton; or swipe the master card : Lock could be opened and then locked autometically after 5 seconds.

2.2 Unlocking password + Key button + swipe unlocking card: Lock could be opened and then locked autometically after 5 seconds.

2.2   Swipe unlocking Card + Put in unlocking Password + Press key button: Lock could be opened and then locked autometically after 5 seconds.

Note: when lock is with double-locking method, password cannot be changed during the 5 seconds when the lock is open.

3. Putting wrong passwords constantly for 7 times would make the keypad locked for 2 minutes.

Other Functions:

1. If password is invalid, there would be three short sound of beep and blue light would be off.
2. If batteries in low power, there would low-voltage alarming; When the lock in very low voltage, unlocking cards cannot word and only the master card workable.

Special Tips:

1. For your property security, we strongly suggest you change the master password and deleting all unlocking password when lock installation finished.
2. For improving security, our lock could be unlocked by anti-peep password. For example: if your correct password is 123456, you coud add any numbers before or after this correct password (as long as the password you put in is no more than 32 bits), such as 02123456987.

Main Function:

Card type: EM4100 ID card

Touchable keypad for password inputting

Micro-wave to check aproaching card

Unlocking methods could be set by users: single-unlocking method or double-unlocking methods

Cards are set on lock without software: 1 master card and 200 unlocking cards at most.

Passwords could be changed by users: 1 master password and 200 unlocking password at most

Anti-peep password available, 32 bits at most.

Batteries power supply, external power supply in emergency.

Main Technical Data

Working Voltage: 6.0V (4 pieces of 1.5V alkaline batteries)

Static power consumption: <40uA

Dynamic power: <300 mA

Low voltage indication:＜4.8V

Reading Card Distance: > 20mm

Temperature: 0℃ -70℃

Working humidity: ≤ 80%