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# Manual of EM Card Cabinet lock

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1. **Components of A Cabinet Lock:** 1 set of lock cover with EM card reader, 1 set of lock core and catch assembly and 1 unlocking card

2. **Functions and Features:**

(1)Single-card-unlocking and double-cards-unlocking modes are available for choice

(2) Power supply: 4pieces of AA 1.5v Alkaline Batteries

(3)If voltage is lower than 4.8V, the lock will alarm whenever unlocked by TM card.

(4)Batteries life span: more than 15 months

(5)External power interface(Audio interface)

(6)Bouncing function: when the lock opened by TM card, the cabinet door will be bounced automatically so that handle is not needed.

(7)In certain emergency cases, the lock can be opened mechanically.

(8)Gear engagement ensures safe and reliable operation.

(9)Wristband for carrying the TM card: convenient, waterproof, heat-resistant, etch-proof.

(10)Unlocking method: TM card unlocking

(11)Technical data:

Operating temperature: -30℃~80℃

Antistatic behavior: >15,000V, information can be save though in strong static

Static Power Consumption: <5 μ A

Dynamic Power Consumption: about 200mA

Low voltage alarm: 4.8V

Relative humidity: <95%

3. **EM Card Lock Operation:**

**3.1 Initialization**

To initialize the circuit board, please press the white button on the circuit board for about 3 seconds( or use something acerose, like toothpick, to jab into the small hole on the lock core). Blue light will be on during this process. Loosen the

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button when you hear a sound of “beep”. At the moment that you hear a long sound of “beep” with 5 short sounds of “beep” following, the lock is initialized (all cards of the lock are cleared) and in the single-card-unlocking mode.

If you press on the white button again during the 5 short sounds of “beep” and loosen it when you hear double sounds of “beep”, the lock would be into the double-card-unlocking mode.

### **3.2 Single-card-unlocking mode:**

**1) Setting a Master card:** After initialization, take a EM card to contact the EM reader. Two sounds of “beep” with blue light flashing indicate the card is read and set as Master card.

**Functions of a Master card:** opening the lock, adding unlocking cards and clearing opening cards.

**Opening the lock by the Master card:** take the Master card to contact the EM reader and then take away the card, the lock would be opened.

When a Master card opens the lock, one sound of “beep” with blue light flashing for 6 times indicate that this is a Master card in the single-card-unlocking mode.

**2) Adding unlocking cards:** Take the Master card to contact the EM reader, then two sounds of “beep”, motor rotating and the lock opened (with lock bolt back into the lock core) indicate the lock is in the state of adding unlocking cards. You can add unlocking cards during the blue light flashing for 6 times -- take another EM card to contact the EM reader, one short sound of “beep” indicates the card is read and set as unlocking card successfully. You can add cards continuously, and 15 unlocking cards can be set at most.

**3) Clearing all of the unlocking cards:** Take the Master card to contact constantly the EM reader. If the card is read successfully, 5 rapid sounds of “beep” with blue light flashing for 5 times and following 3 long sounds of “beep” with blue light flashing for 3 times indicate that all of the unlocking cards are cleared.

### **3.3 Double-card-unlocking mode**

**1) Initialization:** Supply power, and then press the white button on the circuit board for about 3 seconds (or use something acerose, like toothpick, to jab into the small hole on the lock core). Blue light will be on during this process. Loosen the button when you hear a sound of “beep”. During the period that you hear 6 sounds of “beep” following (1 long sound and 5 short sounds), press the white button again, then you will hear double sounds of “beep” with blue light flashing twice. Double sounds with light flashing twice repeat 5 times indicate the double-card-unlocking mode is initialized successfully.

**2) Setting the Master card:** After initialization, take a EM card to contact the EM reader, then two sounds of “beep” with blue light flashing twice indicate the card is read and set as Master card. When the door unlocked by Master card, there would be a sound of “beep” from the lock with blue light flashing 6 times, which indicate this is the Master card in the double-card-unlocking mode.

**3) Adding unlocking cards:** Take the master card to contact the EM reader, then one sounds of “beep”, motor rotating, the lock opened (with lock bolt

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back into the lock core) and blue light flashing for 6 times indicate the lock is in the state of adding unlocking cards. You can add cards during the blue light flashing – take a guest card to contact the EM reader, a short sound with blue light on indicates this card is read and setting as guest card successfully; next take a service card to contact the EM reader, 1 short sound with blue light on indicates this card is read and setting as service card①. At most, 14 service cards can be added for a lock.

Double-card-unlocking mode: take the customer card to contact the EM reader. One short sound with blue light flashing indicates the card is read successfully. Then take a service card to contact the EM reader. Simple music with blue lights on indicates the card is read successfully. At this moment, the motor will rotate and door will be opened( with lock bolt back into the lock core).

\*Note: In the double-card-unlocking mode, the first card added by the Master card is guest card, and all of the following cards are service cards. When unlocking the door, only when the customer card and a service card together can the lock be unlocked. Which card to be read first is not required. Use two service cards or two guest cards can not unlock the lock.

**4) Clearing all of the unlocking cards:** Take the Master card to contact constantly the EM reader. If the card is read successfully, 5 rapid sounds of “beep” with blue light flashing for 5 times and following 3 long sounds of “beep” with blue light flashing for 3 times indicate that all of the guest card and service cards are cleared.