Operating Instructions
for FD-4000/R

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a articular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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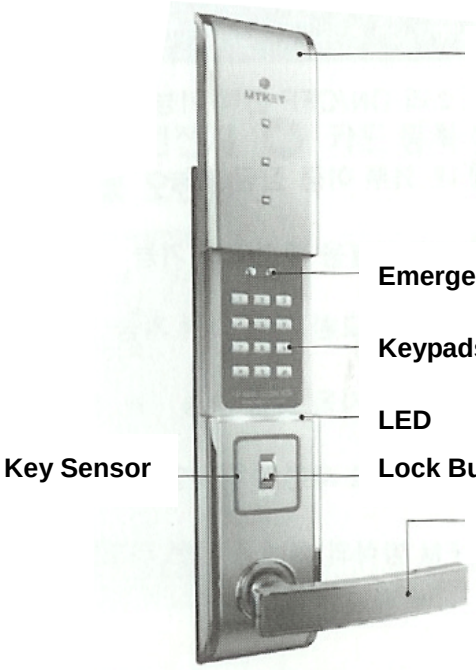
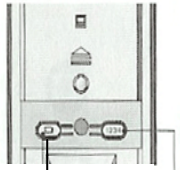
1. Name of part

1) Outer body



2) Inner body



2. Specifications

Specifications(Main)	
Model No.	FD-4000
Size	Inner: 299(H) x 76(W) x 33(D) mm
	Outer: 309(H) x 76(W) x 47(D) mm
Power	DC 6V(8 alkaline ‘AA’ batteries)
Battery life	1 year (assuming 10 open/close a day)
Material	Die Casting (aluminum), PC, ABS
Reading Range	Within 30mm
Available digits of PIN	3-20 digits
Number of cards to register	1-50 cards
Door thickness for installation	35-45mm
Power (for emergency)	DC 9V (not included)

2. Specifications

Specifications(Remote control)	
Model No.	FD-4000R
Size	120mm(H) x 30mm(W) x 17(D)mm
Power	DC 3V(2 alkaline ‘AAA’ batteries)
Battery life	1 year (assuming 10 open/close a day)
Material	ABS
Reading Range	Within 60m
Output Power	Max 5㎽
Band Width	Max 8.5㎑
Operating Frequency	447.650㎒±3㎑

3. Features

-Imaginary numbers before the real PIN

Pressing imaginary numbers (how many digits you want) before the real PIN prevents people who spy out your PIN.

-Setting and modification of password (3~20 digits)

You can set and modify your password at any time.

-Backlighting system

This feature allows you to see the keypad in low light or dark conditions thanks to self-illumination of the buttons.

-Auto re-lock function

If enabled, this function will lock the door within six seconds after being closed. The users do not have to bother locking the door after opening.

-Low battery warning

Red light flashes with an alarm sound to let user know when the battery is running low.

-Tamper proof

All functions will stop for 30 seconds if you enter the wrong password more than three times by mistake.

-Easy installation

The installation of this lock is simple and, in most cases, the existing keyhole can be used. Full installation instruction is supplied.

-PIN memory

Once the PIN is set, it will not be changed or erased even when the batteries are changed.

-Indoor double lock system

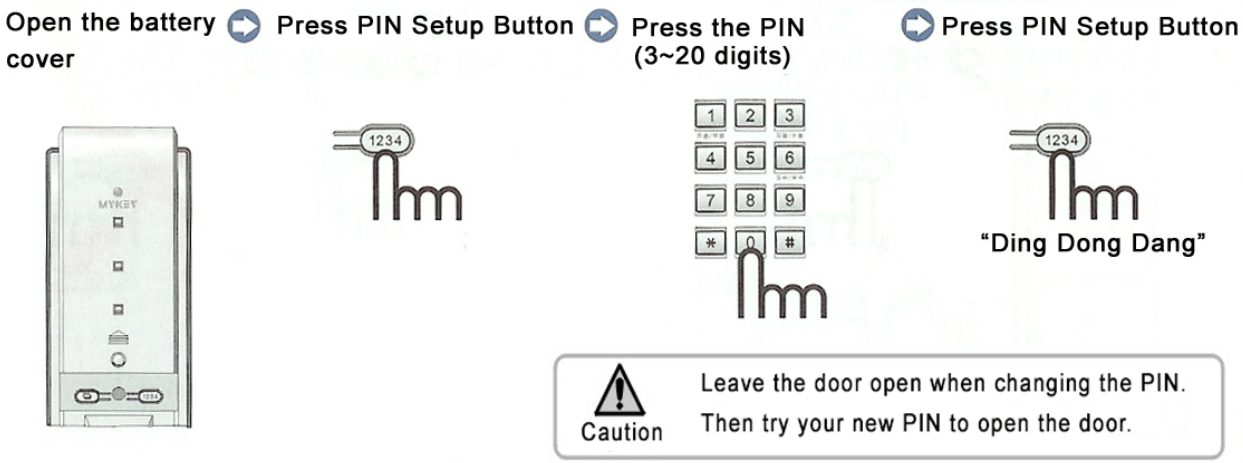
The product has an indoor double lock system preventing someone opening the door from the outside. If this function is activated, no one, even with the correct PIN, can open the door from outside.

-Outdoor double lock system

The user can use this feature from the outside. If the “Lock Button” is held down for 3 seconds after locking the door, no one can open the door from inside.

4. Operating instruction

-How to set up Personal Identification Number



※ NOTE: All procedures have to be done in 8 seconds.

-How to open the door using PIN from outside (when the sliding cover is closed)

Slide up the sliding cover → Press the PIN (3~20 digits) → Press * key or slide down the cover

"Ding Dong Dang"

-How to open the door using PIN from outside (when the sliding cover is open)

Press * key → Press PIN (3~20 digits)

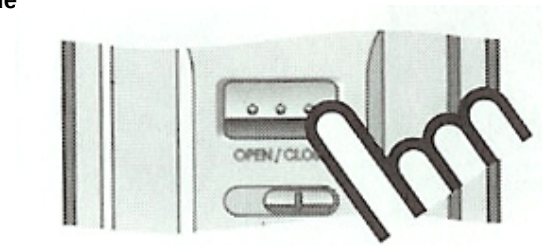
→ Press * key or slide down the cover

"Ding Dong Dang"

-How to open the door from inside

Press Open/Close button to

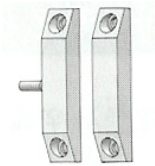
Open the door



“Ding Dong Dang”

-How to close the door when Auto-relock is activated

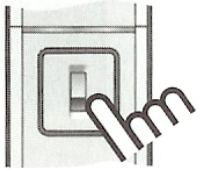
The lock will automatically lock the door after being closed thanks to the magnetic sensor.



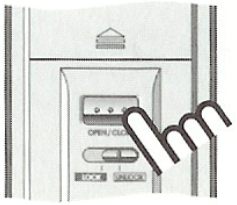
NOTE: The lock will lock the door 6 seconds after the valid PIN or smart key are input.

-How to close the door when Auto-relock is not activated

Outside - Press "Close Button" for 05 second to close

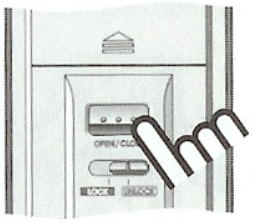


Inside - Press "Open/Close" button to lock the door



-How to set automatic lock option

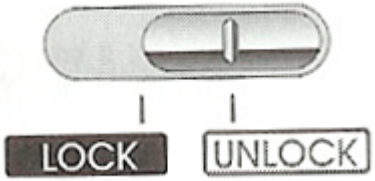
Press "Open/Close" button on inner body for 5 seconds → Press [3] key twice → Press [*] key



- Beep Beep Beep - Auto
- Beep - Manual

-How to set on/off double lock from inside

The door remains locked despite of inputting PIN or smart keys



-How to set on/off double lock from outside

*How to set on

1) Press the “Lock Button” on outer body for 5 seconds
2) Press PIN or place the smart keys near to the reader, then press * key
3) The double locking function will be activated and the open/close key in the inner side will not work.

*How to set off

It will open only by PIN or smart key from the outside.

***** This function is especially good when no one is in or going out for a long time.**

-Ports for emergency

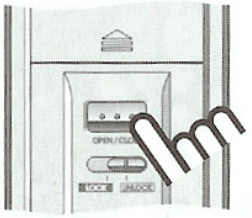
In case of emergency situation when the battery power is run out, you can run to the convenient store near by and buy a 9V battery, then contact it to the emergency contact points as shown below, located on the outside body of the door lock, to open the door lock using PIN or smart cards.

-How to set the buzzer on/off

Press Open/Close button for 5 seconds

Press 1 key twice

Press * key

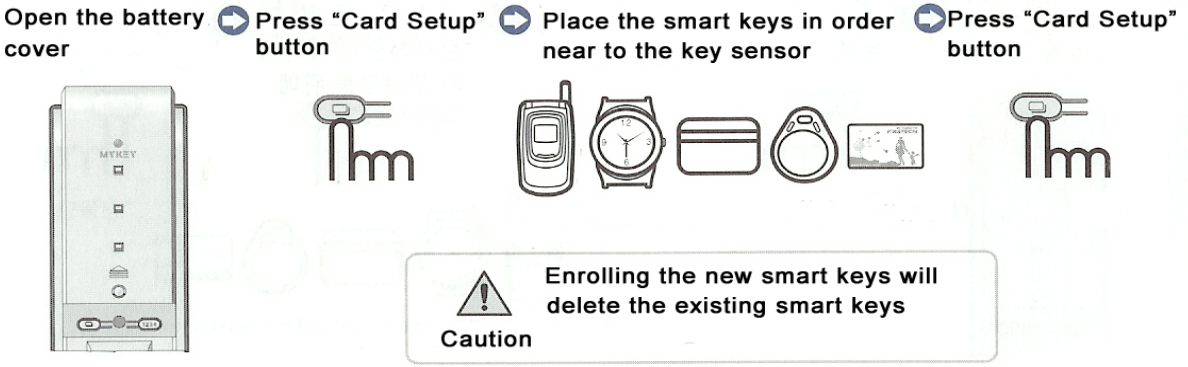


- Beep Beep Beep - Buzzer on
- Beep - Buzzer off

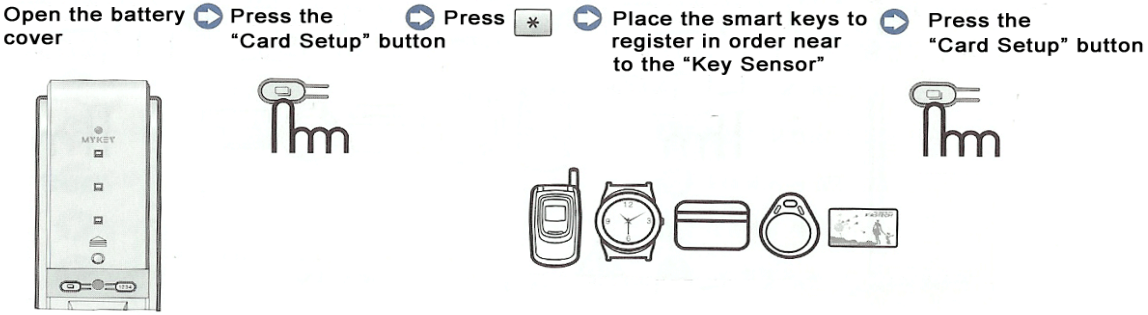
5. How to add or delete the cards

You can open this lock by cards, key tags or “pass-watch” supplied with the system.

-How to register the smart keys (up to 50 smart keys)



-How to add the smart keys (up to 50 smart keys)

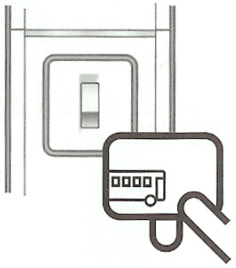


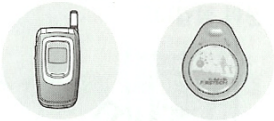
-How to delete all the pre-enrolled smart keys

Open the battery cover → Press "Card Setup" button → Press 0 key twice → Press * key to delete all the pre-enrolled keys

-How to open the door using smart keys

Place the smart keys near to the "Key Sensor" on outer body





☞ How to enroll/delete the remote controller

-How to enroll the remote controller

Open the battery cover

Press "Card Setup" button for 5 seconds

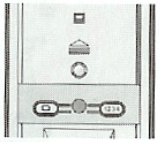
Press the "Enrolling" key with the sharp "pin" (This has to be done within 5 seconds)

Press "Card Setup" button

"Ding Dong Dang"

-How to delete the remote controller

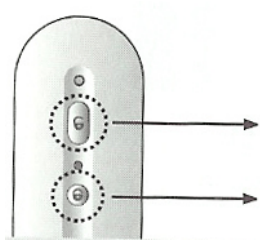
Open the battery cover



Press the "Card Setup" button for 5 seconds

Press the "Card Setup" button "Ding Dong Dang"

-How to open and close the door with the remote controller



Open: press the “open” button (opens within 5 seconds)

Lock: press the “lock” button (locks within 5 seconds)

☞ Burglar Alarm System

-The noisy alarm will sound if someone tries to open the door with force.

-Once the alarm goes off, only the registered card or inputting valid PIN will cancel the alarm.

-This Burglar Alarm System is installed in the factory as a default. If you wish it to be set off, please follow the procedures below,

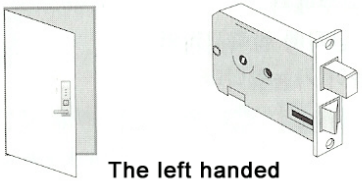
1) Press the “PIN Setup” button
2) Press [2] key twice
3) Press [*] key
4) Burglar Alarm System is **deactivated** (Beep)

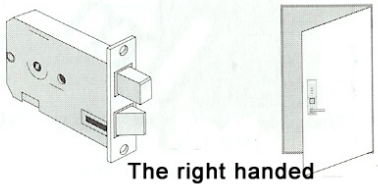
-To set the Burglar Alarm System on again, follow the 1), 2) procedures and the Burglar Alarm System will be installed with the sound of "Beep-Beep-Beep".

1) Press the “PIN Setup” button
2) Press [2] key twice
3) Press [*] key
4) Burglar Alarm System is **activated** (Beep Beep Beep)

6. How to install

1) Uninstall the existing door lock
2) Change the mortise depending on the hinges
   - The included mortise is for both the left and right handed. The default is for the left handed.
   - If the door opens inwards and the hinge is on the right side, the direction of mortise latch has to be changed to the right handed.
   - If users push to open the door, install the mortise latch the other way than above.
3) Fixing the mortise on the door, tighten the mortise with screws.





4) Fold the installation paper by 90 degrees as per the direction of the door.

5) After putting the hole of installation paper on the mortise, fix the position of the hole by placing the two of 7∅ stick, then tape the installation paper on the door frame. According to the installation paper, mark the center of hole with the nail or pen.

6) Mark the center of hole on the outer door with the same installation paper.

7) Unscrew the mortise and drill a hole according to the marks.

8) Fix the mortise on the door and tighten it with the screws.

9) Install the door lock.

10) Check the direction of mortise (Left, Right)

- The default is for the left handed
- To change it to the right handed, press “Open/Close” button for 5 seconds, then press 6 twice and press *

- To check whether the direction of mortise is right or not, press the “Lock” button on the outer body. IIf the latch comes out, the door lock is installed right.

11) Place the handles accordingly.

12) When installing the handles, put the axis with the handle through the hole from outside.

13) Fix the handle with the hexagon wrench and install the sensors for the auto-locking (the distance should be 1 CM)

After Installation

① Place the batteries and input the PIN to open the door

② Check if there is any problem with the open/close button and manual override handle on inner body

③ Check if the latch is smoothly inserted to the latch housing after closing the door

④ Factory default PIN is 1234

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7. Cautions

-If water gets in the device, wipe out the water with a dry towel. It may cause a malfunction.

-If the blue LED flashes when you press the lock key or “*” key, that means the batteries are running low. Please change batteries to new ones quickly. (Battery life – approx. 1 year / alkaline batteries)

-We strongly recommend that you press imaginary numbers before the real PIN when a stranger is nearby.

-Do not use rechargeable batteries.

-Even if PIN is changed, the pre-registered cards are to remain the same.

FCC-B Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio, TV technical for help.
- Only shielded interface cable should be used.

Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the users authority to operate such equipment