# **User Manual**

# K500 Series

[Touch / RF Tag / Fingerprint / Key]

- $\blacksquare$  Please read the manual thoroughly in order to secure your safety and to use the product
- Please use the RF Tag which is provided with door lock.
- If you use the RF Tag which is not provided with door lock, it may occur security problem.





Smart & Premium Design



Fire-proof





# Passcode Hide

### Index

### Introduction Safety Information ----- 04 Parts ----- 04 Basic Functions How to register passcode -----How to register RF Tag ----- 06 How to delete RF Tag ----- 06 How to register Fingerprint ----- 06 How to open door from inside ----- 07 How to open door from outside ----- 07

Outside force-lock function -----

#### Additional Functions

Checklist before calling for service	12
Wireless communication module registration (Optional Product)	
Opening door with emergency battery	10
How to change batteries	10
Check the number of registered fingerprints	10
Door open alert function	10
and the second s	10
	10
	09
	09
	09
	09
	09
	09
	80
	80
	08

### – Features -

#### Open/Close function

Door open by entering passcode

Door open by RF Tag / Door open by Fingerprint / Door open by emergency key Door open by inside handle (Anti panic release function)

#### Outside force-lock function

Outside force-lock by passcode

Auto close/Manual close setting function Setting auto close/manual close by switch

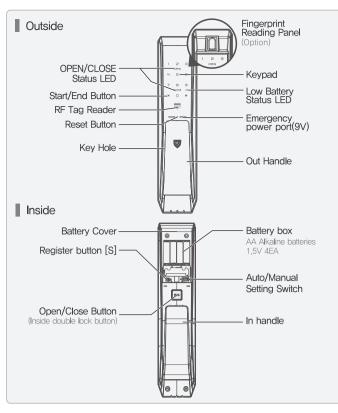
#### Inside force-lock function

Inside force-lock by program

#### Others

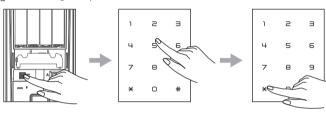
Etiquette mode, high temperature alert, intrusion alert, passcode hide, prank prevention, reset, master management, low battery alert, auto re-lock, door open alert

# Components name -



#### **Basic Functions**

### How to register passcode



- 1. Open battery cover and press register Button [S].
- 2. Input the desired passcode.

Passcode can be set 4~13 digits,

3. Press \* Button to complete the procedure.

■ When register mode is canceled, previous passcode is kept.

- When more than 14 digits are entered, it will not be registered.
- When less than 4 digits are entered, it will not be registered. ■ When a new set of passcode is registered, existing passcode is deleted.
- While entering passcode, registration is canceled when there is no action for
- \* Please make sure whether the new passcode works or not before you close the door.

### MEMO

### Safety Information –

This section contains user safety information. Please read carefully and use it properly.



If not followed, user can be dead or seriously injured.



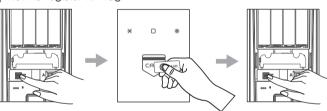
### Do not remove

- You should not remove any installed parts from the door, If you need to do so for any reason, please contact service center and consult,
- ▷ It can cause product malfunction or operation malfunction.
- Do not spray water to the door lock or install it where it is exposed to water or damp.
- b door lock is not water proof, thus water exposure can cause malfunctioning.
- Do not install where it is exposed to snow or rain, Due to the extreme temperature difference of indoor and outdoor, it can cause dampening the door lock. Please use it after it dries.
- > It can cause product malfunction or operation malfunction.
- Make sure the door lock is properly installed and read manual for proper functioning.
- ▷ It can cause product malfunction or operation malfunction.

# Basic Functions

4

### How to register RF Tag



### 1. Open battery cover and press register Button [S].

### 2. Place RF Tag on RF Tag reader.

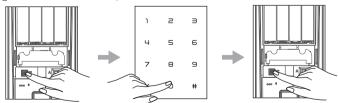
Backlight comes on CARD LED with Beep Sound.

You may register up to 50 RF Tags. Repeat the process consecutively if you have more RF Tags to register.

### 3. Press register Button [S] to complete the procedure.

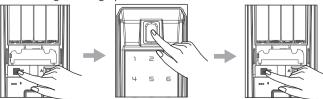
- When registration mode is canceled, existing RF Tag is kept.
- When 50 consecutive tags are registered, registration is completed automatically.
- When error occurs during the process, start over by pressing register Button.■ Registration is canceled when there is no action for 60 seconds.
- You can not register the same RF Tag twice.
- When a new RF Tag registered, existing RF Tag is deleted.

#### How to delete RF Tag



- 1. Open battery cover and press set Button [S].
- 2. Press 0 Button on the keypad.
- 3. Press set Button [S] to complete.
- If lost RF Tag, register new RF Tag after deleting all existing RF Tag information in system,
- When canceled, existing RF Tag is kept. ■ Delete mode is canceled when there is no action for 60 seconds.

# How to register Fingerprints



- Open battery cover and press register button [S].
- 2. Place the fingerprint on Fingerprint Reading Panel. (Must do it 4 tim

3. Press register button [S] to complete the procedure.

- You can register and use up to 100 fingerprints.
- Repeat the procedure 2 in order to register fingerprints consequently. ■ Registration mode is cancelled when there is no action for 20 seconds.
- How to register fingerprint on designated address [S] button  $\rightarrow$  63 button  $\rightarrow$  [S] button  $\rightarrow$  designated address from 1 to 100  $\rightarrow$  # button → place fingerprints 4 times → [S] button

### Parts



User manual(1)



Screw Set

Remote Control

(Optional Device)



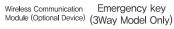
RF Tag





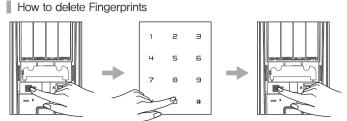








# **Basic Functions**



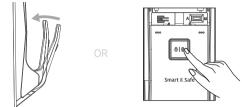
#### [all registered fingerprints]

- 1. Open battery cover and press register button [S].
- 2. Press 71 button.
- 3. Press register button [S] to complete the deletion.

#### [fingerprint on designated address]

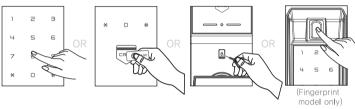
- 1. Open battery cover and press register button [S].
- 2. Press 73 button and press register button [S].
- 3. Press the designated address '1~100' and then #button.
- 4. Press register button [S] to complete the deletion.

#### How to open door from inside



- 1. Push the in-handle to open while locked.
- 2. Turning the manual open/close lever to open position while locked.
- Auto lock is activated when the door is not opened within 7 seconds.
- When outside force—lock is set, opening the door will set off intrusion buzzer alarm.
- When Prank Prevention function is set, Prank Prevention function is deactivated.

#### How to open door from outside



● Press registered passcode and ★ Button after touching the keypad and getting backlight on.

If you want to use the passcode hide function, press imaginary number (Max. 16digits) then press the passcode.

Ex) Imaginary number (Max, 16digits)+Passcode+\*

Additional Functions

■ When incorrect passcode is entered 5 consecutive times.

Prank Prevention function is activated.

\*Button, then the mode is terminated.

Etiquette mode function

[Setting with passcode]

[Setting with RF Tag]

safety is required.

Inside force—lock function

Passcode hide function

entering the actual passcode.

[What is passcode hide function?]

Outside force-lock function by passcode

If door is opened from inside, alarm will be occurred.

2 Press #Button + passcode + \*Button

- Place RF Tag on RF Tag reader.
- Open the door using by emergency key. (3Way Model Only)
  - You must carry or keep at least one emergency key outside.

■ Auto lock is activated when the door is not opened within 7 seconds.

It could be set once and automatically deactivated when door opens.

1. When door is locked, touch keypad and then backlight will get on.

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1. When door is locked, touch keypad and then backlight will get on.

2. Place RF Tag on RF Tag reader after pressing # button.

2. Press #Button during 3 seconds after pressing the passcode.

It allows turning on or turning off the buzzer sound when using digital door lock.

It is one time function which automatically is deactivated after the regular procedure.

This function prohibits someone from opening the door using passcode or RF Tag or

fingerprint from outside. This function is useful during night time when extra caution for

Press Inside force—lock button during 3 seconds.

[Setting Inside force—lock funstion]

Passcode hide function is to prevent someone from noticing the actual passcode.

If you want to use this function, enter imaginary numbers(up to 16digits) before

This function gets rid of anxiety that there would be fingerprint on the pad.

In case of a risk of passcode exposure, this function can be useful.

Ex) Imaginary number should be up to 20 digits including passcode.

■ When unregistered passcode is entered, you will hear error sound or see LED blinking.

■ If passcode is not entered within 7 seconds after pressing more than 1 Button or

Place the registered fingerprint on Reading Panel (4Way Model Only)

### 

#### Reset function



In case there is malfunction in door lock, pressing RESET button will set the program to factory settings.

\*The registered passcode and RF Tag are kept after setting the program to factory settings.

#### High temperature alert function

It checks for open mode every 3 seconds and tries to open if not in open mode. It activates open mode to open even when inside or outside force lock function is activated. It only activates open mode though pressing any button inside. Alarm is deactivated when passcode is entered or RF Tag is placed.

#### [What is high temperature alert function?]

When high temperature is detected, deadbolt switches automatically to open from close and alarm goes off.

High temperature function activates at  $60^{\circ}\text{C} \pm 10^{\circ}\text{C}$  or higher and alarm goes off at

#### Intrusion alert function

Alarm goes off when someone try to open the door abnormally, Alarm is deactivated when passcode is entered or RF Tag is placed.

#### [What is intrusion alert function?]

When parts are separated improperly or someone try to invade by breaking the door, intrusion alert alarm goes off more than 80dB.

- 1, 2 minutes alarm: [S] Button  $\rightarrow$  7 Button  $\rightarrow$  [S] Button
- 2. Unending alarm: [S] Button -> 8 Button -> [S] Button

#### Prank Prevention function

[What is Prank Prevention function?]

When incorrect passcode or RF Tag is used for 5 consecutive times, the system freezes for 60 seconds.

\*In case of opening the door from inside, this function is deactivated.

#### Deadbolt jamming alert function

Try Open/Close 3 times.

Waring sound goes off if the problem is not resolved after the trial.

#### [What is the deadbolt jamming alert function?]

In case of entrance door malfunctioning due to deadbolt being stuck at the strike or the door not being completely closed, buzzer sound goes off and keypad LED flickers

You will hear buzzer sound 'beep beep beep'

It is deactivated when the door is properly closed.

#### Auto/Manual lock setting

Door locks automatically certain time after the door opens or closes. Manual lock setting keeps the door open at all times.

#### [Auto lock setting]

 Open battery cover and set Auto/Manual switch to 'Auto [A]' .

\*It determines to auto lock while switching over to close mode after open mode.

#### [Manual lock setting]

Open battery cover and set Auto/Manual switch to



10

\*It determines to manual lock while switching over to close mode after open mode, \*\*To lock from outside, press more than 1 button on the keypad or press "★" Button.

### Additional Functions

#### Volume control function

You can adjust the volume 8 steps from mute to high.

### [Setting volume control]

- 1. Open battery cover and press [S] button. 2. From keypad, press #button.
- 3. Volume goes up whenever press # button.
- ※ Press 3 button to set Max volume.

Press 2 button to set Low volume.

Press 1 button to set mute.

Wolume of Alarm is max regardless of volume control,

4. Press [S] Button.

### Low battery alert function

It is activated only after it detects low battery more than 3 times... It remains activated even after power resets, It is deactivated only after replacing batteries, Low battery voltage: 4.2V±0.3



In case of low battery, low battery buzzer sound goes off and LED starts to flicker. You can hear buzzer melody.

#### Door open alert function

- Door open alarm goes off when door opens under auto lock mode. Alarm occurs 2 times every 18 second

### Check the number of registered fingerprints

The number of registered fingerprints blinks on keypad.

[S] button → 95 button → [S] button

### How to change batteries

When you hear a buzzer melody, replace all of the batteries.

#### [Replacing batteries]

- 1. Use 1.5V AA authentic alkaline batteries.
- 2. Insert each battery according to the plus and minus sign inside the battery holder. Please be cautious since improper insertion of the battery may cause leakage or
- 3. After battery life is over, replace all the batteries at the same time and do not mix new batteries with old ones.
- Door lock has a special design which prevents improper insertion of the battery by not allowing any actions if the battery was installed incorrectly.
- Passcode and RF Tag information are kept when batteries are being replaced. Make sure the door lock works properly by entering passcode after replacing

### Opening door with emergency battery



When batteries are discharged, place 9V battery to emergency power port in order to use the passcode.

- functioning due to a complete discharge of batteries.
- 2. Use it while the battery is still in contact with the port.
- 3. When using emergency power, polarity of the battery does not matter.

### — Additional Functions –

Wireless communication module registration (Optional Product)



[Registering wireless communication module]

- 1. Open battery cover and press [S] button.
- 2. Press register/open button on the wireless communication module.
- 3. Press [S] button.
- 4. Press open button on the wireless module to see if door lock operates properly.

\* Please register within 60 seconds.

\*\*Can register 5pcs of wireless module continuously.

### [Deleting wireless communication module]

- 1. Open battery cover and press [S] button. 2. Press the number 5 button.
- 3. Press [S] button.

#### Remote controller Registration (Optional Product)







To register the remote controller

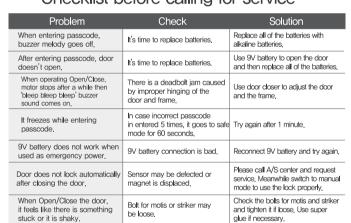
- 1. Lift up the battery cover from the main body, then press the register button [S].
- 2. Press and hold the register button on the remote controller for 4 seconds.
- 3. Press the register button [S] on the main body.
- 4. Press the open button on the remote controller to see if the door lock operates properly.



[To delete remote controller]

- 1. Lift up the battery cover from the main body, then press the register button [S].
- 2. Press 5 on the keypad
- 3. Press the register button [S]

# Checklist before calling for service



## Specifications

Model name  Rated voltage  Type		2WAY: Passcode, RF Tag
		3WAY: Passcode, RF Tag, Key
		4WAY: Passcode, RF Tag, Fingerprint, Key
		DC 6 V (4EA 1.5V AA Type Alkaline Batteries)
		Electronic & Mechanical (Passcode, RF Tag), Fingerprin
Weight		4.3kg (Include packing)
Usage Temperature Sensor activating Temperature		−20°C~60°C
		60°C ±10°C
Product size/Material (width x height x depth)		Outbody 84(W) x 385(H) x 82(D) / All diecasting
		Inbody 84(W) x 382(H) x 82(D) / R.F ABS/ AI diecasting
Battery life Emergency power		1 year if used 10 times per day
		Battery life depends on battery quality, usage frequency or usage environment
		9V Alkaline battery(6LF22) 1EA (Optional Product)
Draduat tras	2Way	Non Fire–proof/Temp, sensor/Non Key/Digital door lock ( $NF-T-NK-M$ )
Product type	3Way	Non Fire—proof/Temp. sensor/Key/Digital door lock ( NF $-$ T $-$ K $-$ M )
		Wireless agripment for DE ID / LICN
Equipment name Frequency Signal Type		Wireless equipment for RF ID / USN 447.275Mhz
		-
		13.56 MHz
		A1D+F1D
Modulation <sup>3</sup>	Туре	ASK+FSK

\*This product cannot carry on perfect security function. You may want to install separate security system.

Certification number | MSIP - CMM - IcQ - K500

\*Contents in user manual can be changed without notifying users in order to improve product quality or service.