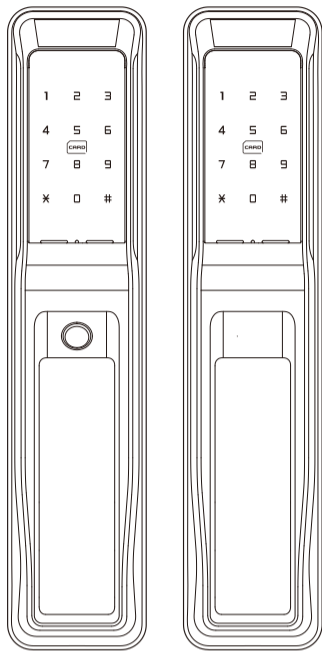


Smart Door Lock User Manual

Pull-Push



CAUTION

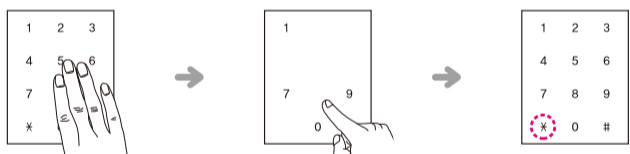
As this is a keyless digital door lock, damage may occur to parts of the dead lock system if it is not used according to the manual. Users should be fully aware of the manual and how to operate this product.

- This manual may change without notice in case of product improvement.
- Product specifications are subject to change without prior notice.
- This manual should not be edited or changed without manufacturer's permission.

04 Using the Product

Opening the door from outside

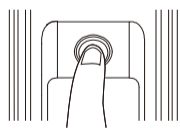
Opening the door with password



Touch **[Touchpad]** and press **[*]** button after entering password. Door opens with melody.

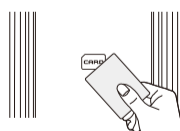
※ If no button is pressed within 7 seconds of touching the [Touchpad], the mode will end automatically.

Opening the Door Using Fingerprint (B Type)



1. Touch the **[Fingerprint Recognition Area]** with a registered fingerprint.
2. After beep sound, the door will be opened.

Opening the door with smart key (S Type)



1. Touch the **[Smart key touch point]** with a registered Smart key.
2. After beep sound, the door will be opened.

3D Password setting/release (It's not set when shipped from factory.)

This function prevents password exposure by recognizing entering time (less than 1 second & more).

Standard password: 1 2 3 4 3D Password: 1 2 3 4

Setting [Register button] → 1 2 → [Register button]

Unsetting [Register button] → 1 3 → [Register button]

- Attention**
1. If you register standard password after setting 3D password, 3D password is automatically released.
 2. You need to authorize with standard password in case of master password registration/deletion, fire or play.
 3. If there's no motion for 15 seconds while entering, registration will be cancelled with sound.
 4. When 3D password mode is released, existing password will be deleted and password will be defaulted to 1234567890.

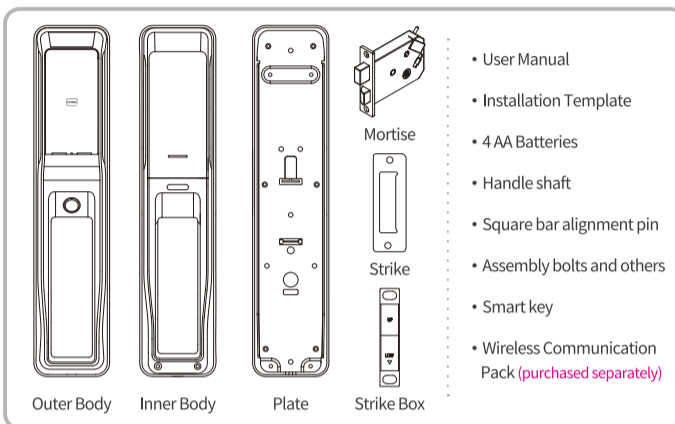
01 Safety Precautions



The precautionary measures are for the safety of the user, for the prevention of property damage, and for the avoidance of any inconveniences due to an accident. These must be read and followed properly.

- Do not disassemble or alter the lock.
- Do not install where the distance over 5mm between the door and door frame.
- Please do not expose the password and change the password in regularly.
- Do not clean the product with flammable materials such as alcohol, benzene or thinners. Such materials may damage the surface or cause a fire.
- Do not press using sharp tools or press numeric button excessively.
- Make sure the door is completely locked when going out.
- Please do not mix old with new batteries or use different types. Always use new alkaline batteries.
- If the product is used in an environment with severe condensation, product performance may be affected.
- Place the batteries carefully and correctly according to their polarity (+/-). If the batteries are inserted in a wrong way, differently from the indicated direction or polarity, leakage or rupture could occur. Pay attention to it.
- Batteries should not be exposed directly to heat sources or flames, or submerged in water, because they may leak or explode, resulting in severe damage. Please do not use damaged batteries.
- Replace the current batteries with new ones within 1 week after the battery replacement notification melody sounded off for the first time.
- Do not install the product in an outdoor environment, especially avoid rain, snow, direct sunlight, damp and salt.
- Functions, design, and components of this product is subject to change without prior notice for improvement of quality.

02 Product Composition

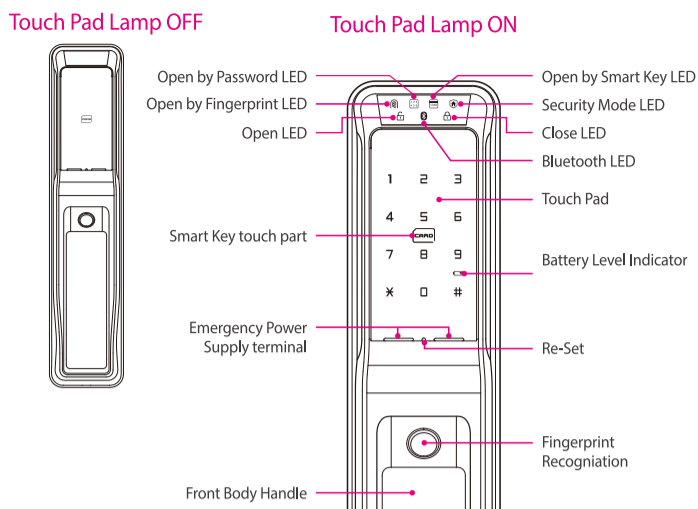


Unlock Method by Model

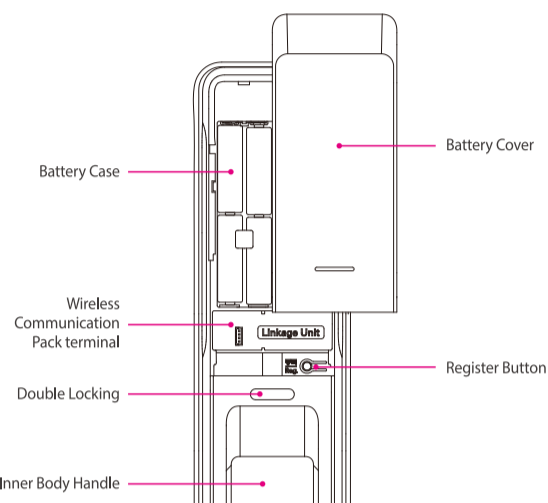
Model Name	Door opening type	Option
S-F Type	2-WAY: Password, Smart key	Wireless Communication Pack (purchased separately)
SK-F Type	3-Way: Password, Smart key, Back-up Key	
WS-F Type	3-Way: Password, Smart key, Bluetooth	
WSK-F Type	4-Way: Password, Smart key, Bluetooth, Back-up Key	
BWS-F Type	4-Way: Password, Smart key, Bluetooth, Fingerprint	
BWSK-F Type	5-Way: Password, Smart key, Bluetooth, Fingerprint, Back-up Key	

03 Name of the main parts

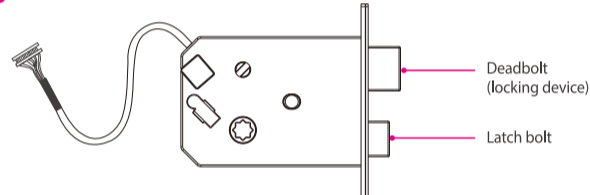
Front Body



Inner Body



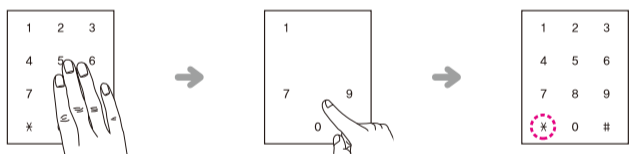
Mortise



04 Using the Product

Opening the door from outside

Opening the door with password



Touch **[Touchpad]** and press **[*]** button after entering password. Door opens with melody.

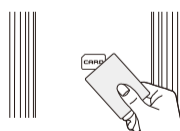
※ If no button is pressed within 7 seconds of touching the [Touchpad], the mode will end automatically.

Opening the Door Using Fingerprint (B Type)



1. Touch the **[Fingerprint Recognition Area]** with a registered fingerprint.
2. After beep sound, the door will be opened.

Opening the door with smart key (S Type)



1. Touch the **[Smart key touch point]** with a registered Smart key.
2. After beep sound, the door will be opened.

3D Password setting/release (It's not set when shipped from factory.)

This function prevents password exposure by recognizing entering time (less than 1 second & more).

Standard password: 1 2 3 4 3D Password: 1 2 3 4

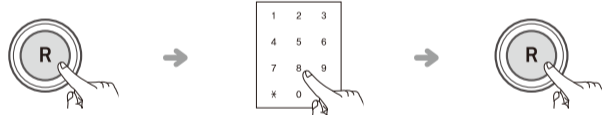
Setting [Register button] → 1 2 → [Register button]

Unsetting [Register button] → 1 3 → [Register button]

- Attention**
1. If you register standard password after setting 3D password, 3D password is automatically released.
 2. You need to authorize with standard password in case of master password registration/deletion, fire or play.
 3. If there's no motion for 15 seconds while entering, registration will be cancelled with sound.
 4. When 3D password mode is released, existing password will be deleted and password will be defaulted to 1234567890.

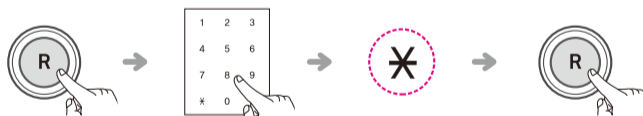
Registering and Changing the Password

- Attention**
- The door must be open while registering the password.
 - Default password is [1][2][3][4].



1. Open the Battery Cover of Inner Body and press **[Register]** button.
2. Enter a 4-12 digit password (excluding * and #).
3. Press the **[Register]** button to register your password.

Multiple Password Registration



1. Open the Battery Cover of Inner Body and press **[Register]** button.
2. Enter a 4-12 digit password (excluding * and #).
3. To register additional Password, repeat (2) above. (Up to 3 can be registered)
4. Press the **[Register]** button to register your password.

※ After input 3 passwords and then press **[*]** button, setup mode will be automatically terminated.

- Caution**
1. If you would like to register 2 or more passwords, you must register them at the same time.
 2. Re-registration will cause existing passwords to be deleted.
 3. If there is no input for 15 seconds after pressing the [Register] button, registration mode will end automatically.

Registering/Deleting the Fingerprint

- Attention**
- Registration mode will be end automatically when 100 fingerprints have been registered.
 - Fingerprints will be registered after 4times fingerprint recognition.
 - Up to 100 fingerprints can be registered.

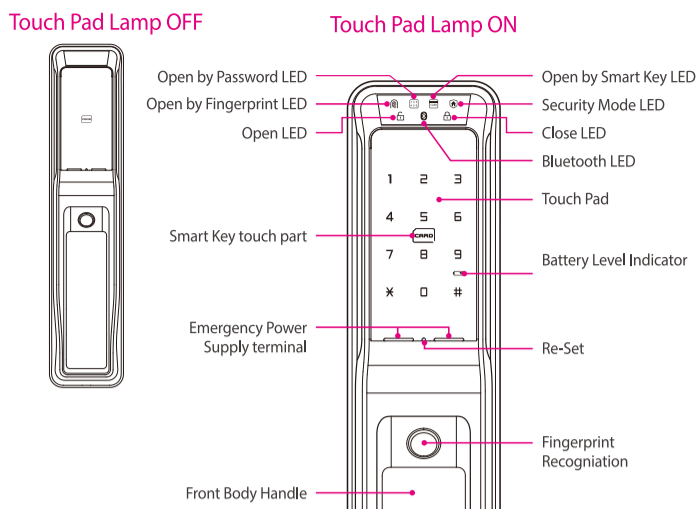


1. Open the Battery Cover of Inner Body and press **[Register]** button.
2. Enter the fingerprint 4 times on **[Fingerprint Recognition]**. (verification area)
3. To register additional fingerprints, repeat (2) above.
4. Press the **[Register]** button to complete the fingerprint registration mode.

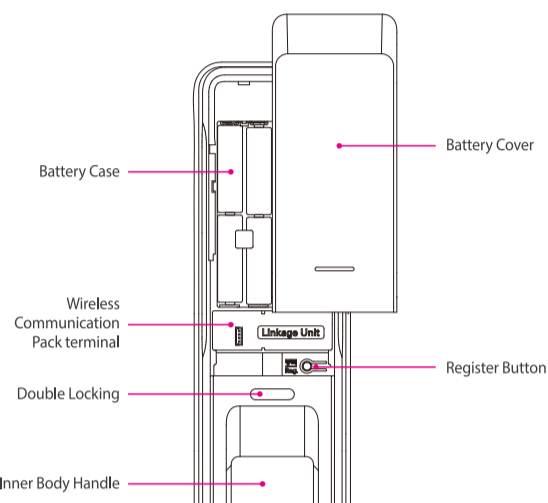
Deleting All Fingerprint

After press the **[Register]** button, and then press the number **[2]** button for **5 seconds**.

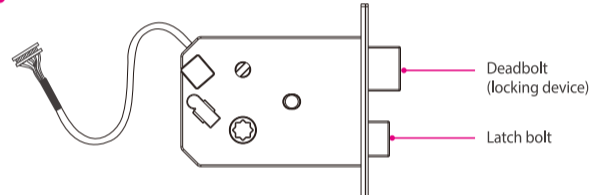
Front Body



Inner Body

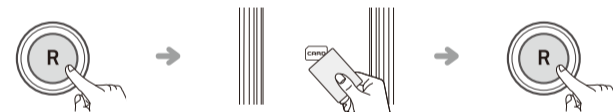


Mortise



Registering/Deleting the Smart key

- Attention**
- When you register new smart key or register it again, you need to register all smart key at the same time.
 - Up to 100 smartkeys can be registered.



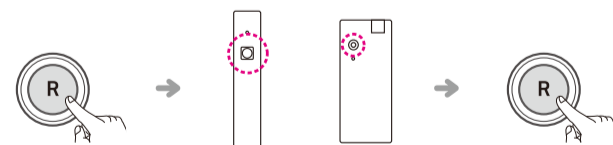
1. Open the Battery Cover of Inner Body and press **[Register]** button.
2. Place the smart key on the touch point of the front ass'y. (A beep sounds to complete each of registration).
3. To register additional smart key, repeat (2) above.
4. Press the **[Register]** button to complete the smart key registration mode.

Deleting All Smart key

After press the **[Register]** button, and then press the number **[0]** button for **5 seconds**.

Registering/Deleting the Wireless Communication Packs

- Attention**
- Up to 10 wireless communication packs can be registered. Registration mode will end automatically when 10 have been registered.
 - If additional wireless communication packs are registered, all existing wireless communication pack registered will be deleted.

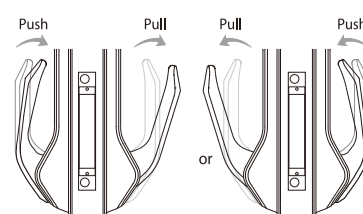


1. Open the Battery Cover of Inner Body and press **[Register]** button.
2. Press **[Open]** button of Remote Controller Transmitter. (A beep sounds at each registration)
3. To register additional Wireless Communication Packs, repeat (2) above.
4. Press the **[Register]** button to finish registering wireless communication packs.

Deleting All Wireless Communication Pack

After press the **[Register]** button, and then press the number **[1]** button for **5 seconds**.

Opening door from inside



Available in both a push-pull or pull-push
Push the main body handle to open the door

Caution Be careful not to get caught in your hands.

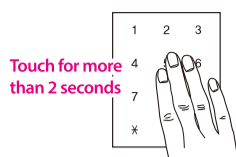
Locking the Door from Inside / Outside

When auto lock is set Locking the door from inside / outside

Default setting is auto lock so the door will be locked automatically in 3 seconds after it's closed.

When manual lock is set Locking the door from outside

Touch [Touchpad] for more than 2 seconds and the door will be locked.



Closing door from inside when manual lock is set.

When the manual lock is set, press the [Double Locking] button once shortly after the door close.



Double Locking mode

When all family members are in home, this safe mode allows no one can open the door using password or smart key or fingerprints from outside.

Setting

Press the [Double Locking] button on the inner body for 3 seconds to set the safety lock function. When setting is completed, registration sound occurs.



Unsetting

Open the door by operating the handle in indoor or press the [Double Locking] button once to release the safety lock function.



※ When the safety lock function is activated from the inside, the door cannot be opened through passwords, fingerprint or smartkeys from the outside.

Double Locking unsetting from outside

If a child or a senior has activated the indoor safety lock function by mistake, this function will allow the indoor safety lock to be released from the outside.

Unsetting



1. While the door is locked, touch the Touchpad and enter the registered password.
2. Press the [#] button & the password. Press the [*] button again.

7

Master password registration & deletion (Password / Smart key)

This function is for apartments and other buildings with multiple households. It can be deleted by tenants.

Master password (3D password is not available for master password.)

Registration [Register button] - [8] - [3] - [Register button]

- [4 ~ 12 digit number] - [Register button]

Deletion [Register button] - [#] - [#] - [#] - [7] - [3] - [Register button]

- [registered password or master password] - [Register button]

Smart Key ※ You can register up to 3 tones

Registration [Register button] - [8] - [6] - [Register button] - [Smart key]

- [Register button]

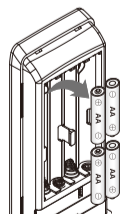
Deletion [Register button] - [#] - [#] - [#] - [7] - [6] - [Register button]

- [registered password or master password] - [Register button]

05 Emergency Alarm Function

High-temperature warning system

If the system detects the temperature which is high(70°C±10°C) to an extent that a fire is suspected, after 5 seconds the system will automatically release the lock with automatic alarm at 80dB or higher will sound.



High Temperature Warning Release Method

Release when power is reset by removing batteries

※ This function cannot be released when the product temperature is high.

When the alarm sounds, the door will automatically unlock regardless of indoor safety lock or outdoor forced lock settings.

Intrusion alarm/Breakage alarm function

The function that makes alarm sound when the door is forcibly opened from outside or inside. If the door is forcibly opened(ex.: spread a chink in the door forcibly) after more than 7seconds door closing status, the sensor on the door lock will detect it and the door lock will make 80dB alarm sound for 3min. and every marks on the pad will blink.

Turning the alarm sound off

The alarm sound will off if you enter the passwords or authenticate the fingerprint/smart key properly or remove the batteries.

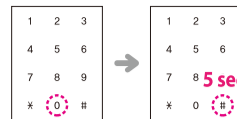
10

Forced lock setting/unsetting from outside

This function is an enhanced security function that will play an emergency alarm when the door is opened from the inside after you've been outside for a long period of time.

Setting

Touch [Touchpad] from outside pressing [0] button and press [#] button for 5 seconds.



Unsetting

This setting will be released automatically when you open the door normally using a registered password, fingerprint, or smartkey from the outside.

Dual Security Mode Setting and Release

Dual security mode prevents password exposure through authentication of any three numbers after entering your password.

Setting [Register button] → [1] [4] → [Register button]

Unsetting [Register button] → [3] [6] → [Register button]

※ Unset when goods are shipped from the factory.

Double Recognition mode Setting/Un-setting

Enhanced security function that opens door with one of the remaining authentication methods after the first authentication, among the existing registered authentication methods(ex. Smart Key+Password or Fingerprint).

Setting [Register button] → [5] [1] → [Register button]

Unsetting [Register button] → [5] [2] → [Register button]

※ Unset when goods are shipped from the factory.

Automatic/Manual Lock Setting

Automatic Lock Setting [Register button] → [3] → [Register button]

Manual Lock Setting [Register button] → [6] → [Register button]

※ The factory default setting is Automatic Lock.

Attention

- After the door is opened, the automatic lock detection sensor will activate and determine whether or not to automatically lock.
- Automatic Re-lock Function: After releasing the lock from the inside or outside, the door will re-lock automatically if the door is not opened for 7 seconds.

One-time use password Registering/Deleting

The function is temporary use for guests.

Registering

[Register button] → [9] [3] → [Register button] → [password] → [Register button]

Deleting

[Register button] → [9] [6] → [Register button] → [password] → [Register button]

※ This function is for one-time use only. Once, a guest open the door, this password is deleted.

8

30seconds Locking function

The function that shut off the door lock when you mis-operate the door lock from outside. If you enter unregistered passwords or fingerprints or smart keys continuously more than 3 times, The door lock will shut off and will make alarm sound for 30 seconds.

Releasing 30seconds Lock Function

The 30seconds Lock will be released when one of the registered password/fingerprint/smart key is validated normally or press down indoor handle to open.

Door open status notification function

If the door is not locked for a while in the automatic lock mode, a "beep, beep" sounds twice at intervals of 7 seconds to indicate that the door is open.

Locking Device Interference Alarm Function

When the deadbolt (locking device) is unable to properly come out or go in 3 times in a row when the door locks or unlocks, a melody will play.

Attention

If the alarm continues to sound or if the device is unable to function properly, the door's drooping, etc. must be readjusted. Please ask for assistance from the installation site or door lock specialist. (Subject to service fees)

Alarm Function When Replacing Batteries

When it's time to replace batteries, you will hear melody sound to let you know when open or lock the door. When you hear this melody, open battery cover and replace all batteries with 1.5V Alkaline batteries.

(The battery change notification LED which is on the touch pad will be turn on the light when the notification melody rings.)

How to Replace Batteries

Replace the current batteries with new one (4 AA Batteries) within 1 week after the battery replacement notification melody sounded off for the first time. (If you continue to use the batteries without replacing them, the operation will stop)

Attention

- Must use general batteries, not rechargeable ones.
- Please be careful of batteries' polarity because it can cause leakage or rupture if placed wrongly.
- Must replace all old batteries with new ones, not partially. Do not use new ones with discharged ones together.
- It is designed to operate with the rated voltage 6V. If low voltage(4.2V±0.3V) is detected, melody will be generated.
- If the door lock stops working or batteries are discharged in a short period of time after replacement, the batteries could be defective. It is required to contact the shop where the user purchased batteries and get new ones as replacement.

11

Smartphone Validation Mode Setting and Release

When Smartphone Validation mode is set, the registered smartphone can validate user authentication automatically without any user action. Approaching to the door from outside holding the registered smartphone (and then, touch the number pad once) will open the door.

Setting [Register button] → [4] [1] → [Register button]

Unsetting [Register button] → [4] [2] → [Register button]

Attention

- Refer to App Installation Manual separately enclosed in the package for how to find and install App.
- Please refer to the instructions manual in the app for how to use this function.

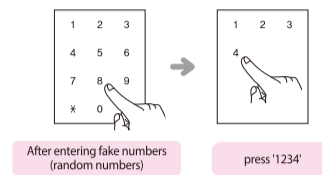
※ Unset when goods are shipped from the factory.

Entering trick numbers to prevent exposure password

If there's watchful person when the user enter password, this function allows the user can protect password by entering fake password before real password.

How to use

If the password is '1234', enter fake password(random numbers) before real password, enter '1234' and the door will be opened.



※ Fake numbers (random numbers: 1 ~ ∞)

Volume Control (Default setting is stage 4 of basic setting.)

The user can set the volume from silence to stage 6.

Setting [Register button] - [#] - [7] : Volume down
[8] : Silence
[9] : Volume up - [Register button]

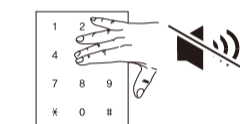
- [7] button : If pressed repeatedly, volume will be reduced gradually.

- [8] button : Silence (except warning sound)

- [9] button : If pressed repeatedly, volume will be increased gradually.

Etiquette mode

Regardless of the current sound setting, this function makes the door lock silent for 1 time when the user wants to use it quietly.



Touch for at least 2 seconds

How to use

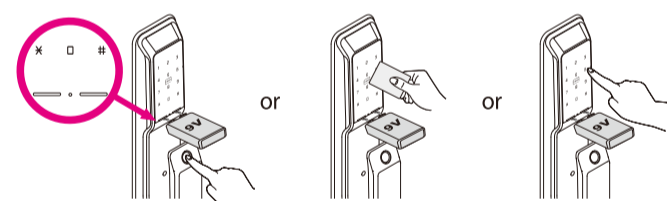
Touch [Touchpad] for 2 seconds to activate this function.

※ This is one-time function so sound will be generated from next time.

9

Emergency Power Supply Function

If the batteries in the product are completely depleted and you are unable to open the door from the outside, this function will enable you to open the door by using 9V batteries from outside for emergency power supplying.



1. Purchase rectangular 9V batteries from a nearby convenience store.

2. Place the battery on the 9V battery input terminal of the outdoor main body. If emergency power has been properly supplied, you will hear a "beep, beep" sound and the password light will turn on.

3. You can open the door by entering the password or registered fingerprint detection or touching the receiver with registered smart keys.

Attention

- 9V batteries for emergency power supply use can be placed in any direction on the input terminal regardless of the positive or negative polarity.
- The 9V battery must remain in contact with the input terminal for emergency power to be supplied. (Not a charging method)
- After supplying emergency power, immediately replace all depleted batteries in the indoor main body.

06 Product standards

Category	Contents	
Product Dimensions	Inner Body	82(W) X 313(H) X 22.5(D) mm
	Outer Body	80(W) X 300(H) X 35.5(D) mm
Rated Voltage	DC 6V	AA Alkaline 1.5 Batteries (LR6) 4EA
Emergency Power	DC 9V	Alkaline batteries (sold separately)
Operation Method	Electronic Control Method (Password, Fingerprint, Bluetooth, Card, Key Tag)	
Option	Wireless Communication Pack (Purchase separately)	
Product Type	DC-Fire Resistant-Temperature Sensor-Keyless-Main Rudder(D-F-T-NK-M)	
	DC-Fire Resistant-Temperature Sensor-Key-Main Rudder(D-F-T-K-M)	

※ Battery lifespan are based on the company's test figures. They are not absolute figures and may differ according to the temperature and humidity of the site of installation, frequency of use, and battery quality.

12