

Manual No. 8E8H3790

For customers	For installers
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DTFL2B Card Lock Operation Manual



Please be sure to read "Instructions for Safety" on pages 2-5 before use, and follow the instructions to use the product correctly.

Instructions for Safety

Be sure to read this before use.

- Please follow the instructions herein to prevent failures and accidents such as an electric shock, ground leakage, and fire.
- We assume no responsibility whatsoever for any failures or accidents resulting from failing to follow the instructions in the operation manual.
- Safety precautions to be observed to prevent harm to users and other people as well as damage to properties are indicated as follows.

Types of the precautions to be observed are categorized and indicated with the symbols below to provide explanation.

	This symbol indicates "attention-seeking" matters which users are requested to pay attention to.
	This symbol indicates "prohibited" matters that users are not allowed to perform.
	This symbol indicates "compulsory" matters that users are required to perform without fail.

ATTENTION CUSTOMERS



WARNING

The following section describes matters that can have serious physical effects on human body (including death or heavy injury) or impair the original function of the product if it is handled improperly.



Keep cardiac pacemakers and ICDs (defibrillators) away from the device.

- People with an implanted cardiac pacemaker or ICD (defibrillator) are requested to make sure the cardiac pacemaker or ICD is more than 12cm away from the reader on the door. Radio waves from the reader (transmitting antenna) can influence the operation of cardiac pacemakers and ICDs.



Do not alter or disassemble the product.

- Doing so can cause a fire, electric shock, or failure.



Do not wet the product with water.

- Wetting the product can cause a fire, electric shock, or failure.
- Although the reader unit and control unit are waterproofed (the reader unit is equivalent to IPX5 while the control unit is equivalent to IPX4*), do not pour water onto them with a bucket, hose, etc.



Do not insert metals such as needles or hairpins in the device.

- Doing so can cause a fire, electric shock, or failure.
- Keep the cover of the product closed during normal operation.



Do not insert batteries vice versa. Otherwise the product will be broken.

Do not mix alkaline and lithium batteries.

Do not mix old and new batteries.

- Doing so can cause liquid leakage, heat generation, burst or ignition of the battery such as for abnormal reaction to charge or short circuit.

* It indicates the level of protection defined by JIS C0920 (IEC 60529) "Ingress Protection code (IP code) provided by enclosures of electrical machines and equipments". IPX4 indicates splash-proof type while IPX5 indicates jet-proof type.



CAUTION

The following section describes matters that can cause personal injury, impair the original function of the product, or cause property damage if the product is handled improperly.



Do not touch any parts unless necessary for operation.

- Doing so can cause an electric shock or injury.



In the case there is any abnormal status such as smoke generation, unusual odor, heat generation, etc., stop using the product immediately and contact us.

- Continuing to use it in an abnormal status can cause an electric shock or fire.



Do not short-circuit the battery electrodes.

- Doing so can cause heat generation, burst, or ignition.



When you dispose of batteries, insulate the electrodes by wrapping them with a tape or the like. Dispose of them properly according to the regulations of your local government.

- Mixing them with other metals and batteries can cause heat generation, burst, or ignition.

Precautions for handling RFID card (FeliCa/Mifare card *)



Do not scratch or bend an RFID card.

- Deformed, warped or cracked cards can not be read.



Do not wet an RFID card with water.

- Doing so can make the card out of order.



Do not leave RFID cards at a place exposed to direct sunlight or high temperature, such as in a vehicle under the blazing sun.

- Doing so can deform the card.



When you carry an RFID card in your trouser pocket, avoid carrying or using it in a way that applies bending stress to it.

- Doing so can damage the card or impair its original function.



RFID cards may not react properly if carried with metals (such as coins) or other contactless IC cards.



Make sure not to carry an RFID card together with coins or other metals in a pocket.

- Doing so can damage the card.



If you lose an RFID card, unregister the card immediately.

- Keeping it registered can cause a risk of being used for fraud.



Do not attach to an RFID card a sticker or the like that includes metallic composition.

- Doing so can degrade the reading performance of the reader, and make the card unusable.



Do not use multiple cards stacked together.

- Doing so can make the card unreadable by the reader.

* "FeliCa" is a contactless IC card technology developed by Sony Corporation.

* "FeliCa" is a registered trademark of Sony Corporation.

* Mifare® is a registered trademark of NXP Semiconductors.

Precaution for handling the devices



Do not touch inside the devices.

- Doing so can cause an electric shock or failure.



Do not attach to the reader unit a sticker or the like that includes metallic composition.

- Doing so can disable the reader or the PIN pad.



If the door end has a status such as sag, warpage, curve or distortion caused by secular change, the lock may not operate smoothly. In such a case, adjustment or repair of the door is required. Make such a request immediately to appropriate persons such as the administrator of the building, contractor, or door manufacturer.



If you leave the room with the mechanical ventilation (such as ventilating fan) on, be sure to have the air vent opened. Otherwise, the front door is pulled toward the inside by pressure difference, which can disable locking and unlocking the door by electric control.



The radio transmitter incorporated into the device is awarded with certificate of technical conformance in accordance with the Radio Act of Japan and therefore does not require radio-emission licenses for its operation. However, any disassembly/modification of the device or elimination/erasure of rating labels may result in legal penalties and are strictly prohibited.



As this device incorporates a product certified according to the Radio Act of Japan, it is not for use outside Japan.



This device operates in the 2.4GHz/13.56MHz frequency band. The use of the device within vicinity of other equipments using the same frequencies may result in causing adverse impact on both devices. Maintain distance between the device and other equipment using the same frequency band (2.4GHz/13.56MHz) including the following:

- Microwave ovens, cordless digital phones, wireless audio equipments

■ Care of the devices

For daily care, wipe them with soft clothes. If the main unit of the device has heavy stains, use a cloth wrung out of diluted neutral detergent to wipe them off. Do not use an acid detergent, chlorine detergent, thinner or benzene.

■ Durable life of electric lock system

Japan Lock Manufacturer's Association (JLMA) defined the standard period during which electric lock systems can be used without safety problems by conducting proper maintenance and inspection, and established the following durable life to promote their long and safe use by raising awareness about electric lock systems that have passed their durable life.

7 years after delivery or purchase of the building (product)

(Target of the durable life is electric lock systems used for the building, their control devices and authentication devices.)

The durable life is a rough standard for the period before replacement during which fundamental performance of the product can be maintained by proper maintenance and inspection, which was established by Japan Lock Manufacturer's Association, and is not a guarantee (free-of-charge repair) period of products.

■ Others

Contents and specifications provided herein are subject to change without notice.

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Table of Contents

Instructions for Safety 2

Be sure to read this before use.	2
ATTENTION CUSTOMERS	3
Precautions for handling RFID card (FeliCa/Mifare card *)	4
Precaution for handling the devices	5

Overview 10

What is DTFL2B Card Lock?	10
Settable operation modes	10
Part names and functions	12
Outside (reader unit)	12
Inside (control unit)	14
How to remove and attach the cylinder cover	15
How to remove and attach the battery cover	16

Operations 17

Operations to enter and leave a room	17
Operation to unlock/lock a door from the outside (Card)	17
Unlocking a door	17
Locking a door	17
Operation to unlock/lock a door from the outside (PIN pad)	18
Unlocking a door	18
Locking a door	18
Operation to unlock/lock a door from the outside (Card and PIN pad)	19
Unlocking a door	19
Locking a door	19
Operation to unlock/lock a door from the outside (Mechanical key)	20
Locking/Unlocking a door	20
Convenient functions you should know	20
Easy locking function	20
Auto-lock function	21
Mischief prevention	21
Muting buzzer	21
Shutout PIN	22
Operation to unlock/lock a door from the inside	23
Unlocking a door	23
Locking a door	23
Locking follow-up function	24
Locking reset function	24

Battery replacement.....	25
Replacing batteries on the inside	26
When unlocking is disabled for battery exhaustion	27

Settings 28

Flow of settings.....	28
Set button	28
Setting the right and left handed types.....	29
Direction to turn the thumb-turn for locking.	29
System settings.....	32
System settings that can be configured	32
Procedures for various settings (except BLE setting)	34
BLE setting	35
BLE setting of the upper and lower units	35
Setting pairing.	35
Canceling pairing	37
BLE setting between the upper unit and door open/close sensor	40
Setting pairing.	40
Canceling pairing	41
BLE setting between the upper unit and I/F unit.	43
Setting pairing.	43
Canceling pairing	44
Types of card and PIN.....	46
Card type.	46
Types of PIN	47
Room status	47
Registration/deletion of card and PIN.....	48
Registration/deletion items	48
Error display	49
Setting operations in construction period	50
Registration of construction card	50
Individual deletion and entire deletion of construction cards	51
Registration and change of construction PIN	52
Deletion of construction PIN	53
Confirmation of construction PIN	54
Setting operations at the time of delivery	55
New registration of master cards	55
Additional registration of master cards	56
Individual deletion and entire deletion of master cards.	57
Setting operations at the time of vacancy	58
Registration of vacancy card	58

Individual deletion and entire deletion of vacancy cards	59
Registration and change of vacancy PIN	60
Deletion of vacancy PIN	61
Confirmation of vacancy PIN	62
Setting operations at the time of occupancy	63
New registration of registration cards	63
Additional registration of registration cards	64
Individual deletion and entire deletion of registration cards	65
New/Additional registration of user card	66
Individual deletion and entire deletion of user cards	67
New registration of user PINs	68
Additional registration and change of user PINs	70
Deletion of user PIN	72
Confirmation of user PIN	74
New registration of administrator PIN	76
Change of administrator PIN	77
Deletion of administrator PIN	79
Operations on leaving a room	80
Entire deletion of registration cards (leaving operation)	80
Checking the number of registered cards/PINs	81
Confirmation of the registration address of various cards	82
Setting operations when the authentication mode is set to "AND authentication"	83
Registration of cards and PINs	83
Change of PINs associated with cards	85
Confirmation of PINs associated with cards	87

References 89

Quick Operation Guide	89
List of LED displays and buzzer sounds	100
Troubleshooting	106
Specification	112
External view	113
Management ledger	114
Cleaning instruction	115

SAMPLE

Overview

What is DTFL2B Card Lock?

- DTFL2B Card Lock is an electric lock system that allows locking and unlocking doors by using a FeliCa card, Mifare card, or FeliCa-enabled terminal, or by entering a PIN with a PIN pad.
- This product can be installed on a newly built door easily with a driver.
It can also be installed easily on an existing door without any special work on the door.
- This product can be connected to external devices (e.g. door open/close sensor, I/F unit, etc.) by Bluetooth.

Settable operation modes

(1) FKL ID mode

Key data of FKL lock system issued by MIWA Lock is used as an authentication ID in this mode.

FKL card and FL key head can be used.



FKL card (FKL card)



FL key head (TLFL-K01)

Change key integrated (key head)
type ID key with an IC chip built in.

Precautions for use of FeliCa card and mobile phone

- * Attaching a sticker or the like that includes metallic composition to a FeliCa card and mobile phone (including smart phone) can degrade the reading performance of the reader, and make it unusable.

(2) Card setting mode for arbitrary ID

A guest's specified card (specified area card) or Edy number is used as an authentication ID in this mode.

FeliCa card and Mifare card (Standard 1K/4K) can be used.

- * For card setting of arbitrary ID, you need to configure area setting of the specified card using a special setting card (initial card) prepared by MIWA Lock.

To order a setting card, please contact your nearest office of MIWA Lock.

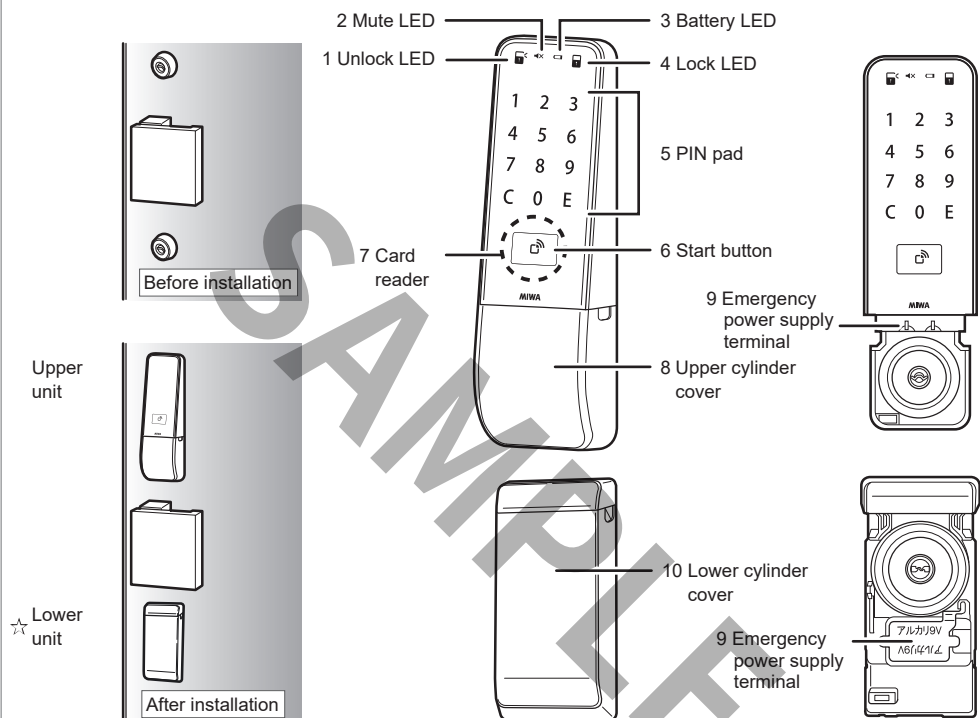
■ Attention!

- * Specification of the communication distance is guaranteed only for original cards issued by MIWA Lock. The communication distance defined in the specification may not be secured depending on the type of card.
- * The communication distance of FKL card is approximately 10mm. FL key head can only be used by contacting.

Part names and functions

Outside (reader unit)

Case of DTF2BD02

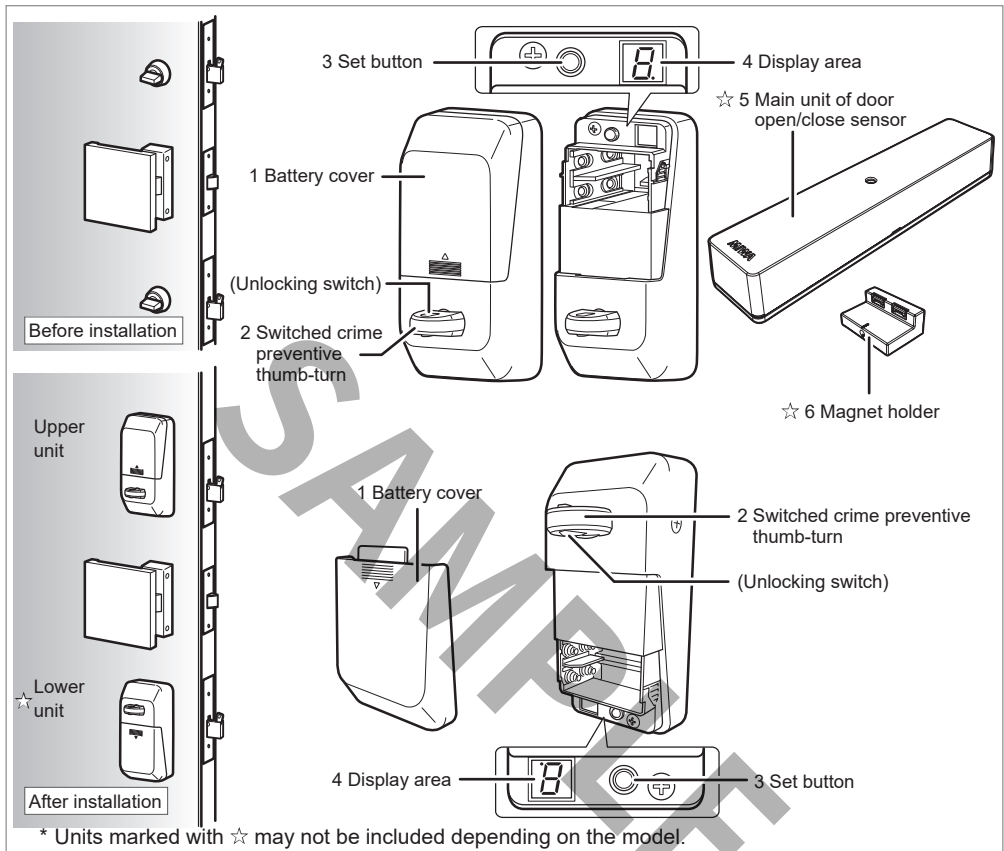


* Units marked with ☆ may not be included depending on the model.

■ Part names and functions

No.	Name	Function
1	Unlock LED (red)	Lights up when unlocking a door. Flashes when an authentication error occurs.
2	Mute LED (red)	Lights up when the buzzer sounding is off.
3	Battery LED (red)	Flashes when the remaining battery level is low. Also, lights up when power is fed from the emergency power supply terminal.
4	Lock LED (green)	Lights up when locking a door.
5	PIN pad	Used to lock and unlock a door using a PIN. The PIN pad panel is designed to prevent peeping from both sides.
6	Start button	To lock or unlock a door, first press this button and perform card operation or PIN pad operation.
7	Card reader	Hold a card over this area.
8	Upper cylinder cover	Cover under which you can find the cylinder and emergency power supply terminal.
9	Emergency power supply terminal	Uses a rectangular 9V battery to feed power from the emergency power supply terminal when unlocking from the outside unit is disabled due to battery exhaustion (Page 27). The lower emergency power supply terminal is covered with a rubber cover.
10	Lower cylinder cover	Cover under which you can find the cylinder and emergency power supply terminal.

Inside (control unit)



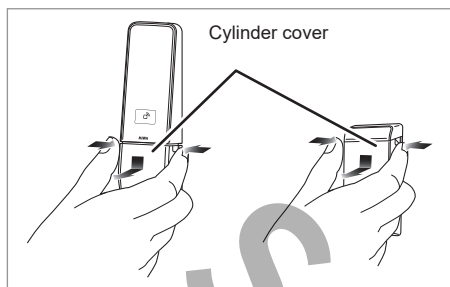
■ Part names and functions

No.	Name	Function
1	Battery cover	Covers the control unit. It needs to be removed to operate the Set button or replace the battery.
2	Switched crime preventive thumb-turn	Used to lock and unlock a door from the inside. To unlock a door, turn the thumb-turn while holding and pressing the unlocking switch. As phosphorescent resin is used at the center of the thumb-turn, status of the thumb-turn can be checked for a while even after the surrounding area becomes dark. * If LED light is used or light accumulating time is too short, or if the surrounding area is bright, it may not be possible to visually check the thumb-turn, depending on the environment. * The thumb-turn is asymmetric. Configure the setting when it is installed on the door (Page 29).
3	Set button	This button is used to register/delete a card or PIN, or to configure the system setting.
4	Display area	Used to configure various settings, etc.
5	Main unit of door open/close sensor	Checks the open/close status of the door, and automatically locks the door when it detects the door-closed status.
6	Magnet holder	

How to remove and attach the cylinder cover

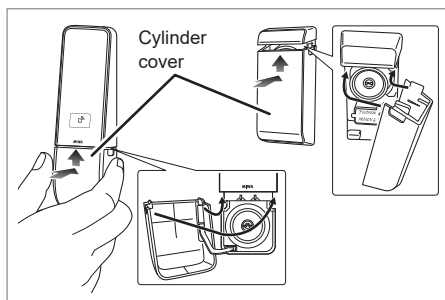
■ How to remove the cylinder cover

Hold firm on the indented parts on both sides of the cylinder cover, slide the cover downward, then pull it toward you to remove it.



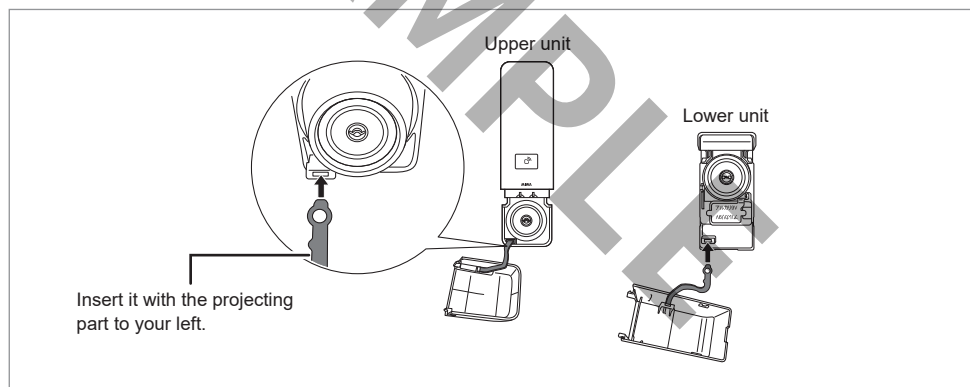
■ How to attach the cylinder cover

Place the cylinder cover so that it is aligned with the guide, and slide it upward until you hear a click to fit it firmly.



■ About fall-preventing strap for the cylinder cover

The cylinder cover has a strap to prevent it from falling. The strap comes off if pulled hard. Set it back to the original position after it comes off.



How to remove and attach the battery cover

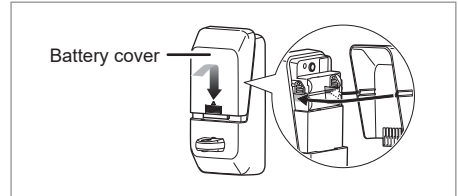
■ How to remove the upper battery cover

Slide the battery cover upward and pull it toward you to remove it.



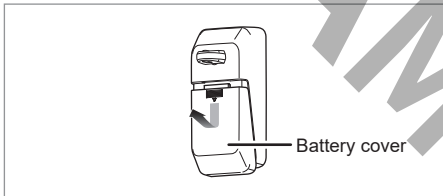
■ How to attach the upper battery cover

Place the battery cover so that it is aligned with the guide, and slide it downward until you hear a click to fit it firmly.



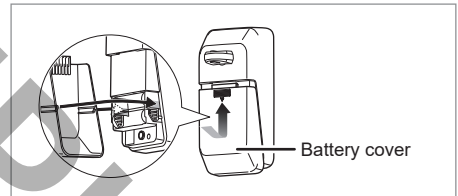
■ How to remove the lower battery cover

Slide the battery cover downward and pull it toward you to remove it.



■ How to attach the lower battery cover

Place the battery cover so that it is aligned with the guide, and slide it upward until you hear a click to fit it firmly.



Operations

Operations to enter and leave a room

This section explains the normal operations to enter and leave a room using a user card mainly used by residents or user PIN*. The card or PIN needs to be registered to lock and unlock a door.

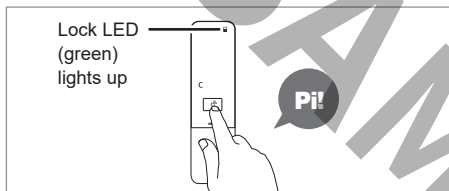
* The operations are basically common to vacancy card/PIN, construction card/PIN, and master card. For more details on respective cards/PINs, refer to "Types of card and PIN" (Page 46) and "Registering and deleting cards and PINs" (Page 48).

Operation to unlock/lock a door from the outside (Card)

Unlocking a door

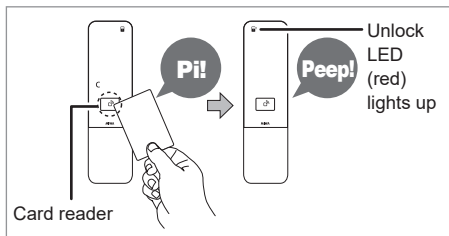
① Press the Start button on the outside (reader unit). (*1)

The Lock LED and "C" light up.



② Hold a user card over the reader within 5 seconds. (*2 *4)

The Unlock LED lights up and the door is unlocked. (*3)

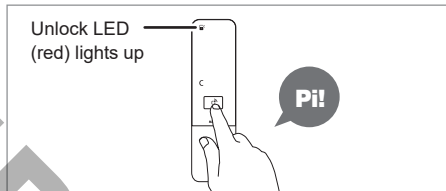


③ Open the door.

Locking a door

① Press the Start button on the outside (reader unit). (*1)

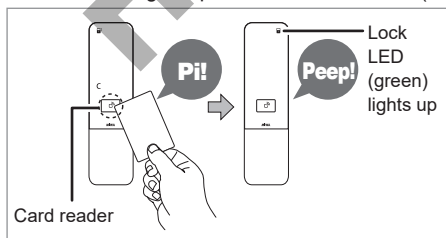
The Unlock LED and "C" light up.



* If easy locking function is on, simply pressing the Start button locks the door. For details, refer to "Easy locking function" (Page 20).

② Hold a user card over the reader within 5 seconds. (*2 *4)

The Lock LED lights up and the door is locked. (*3)



③ Check that the door does not open.

*1 If the authentication mode is set to "OR authentication, PIN overrides", press the Start button twice.

*2 The device goes back to the sleep state if operation is not performed within 5 seconds. In that case, perform the operation from the beginning.

*3 If card authentication results in NG, the device makes a sound "Pi-pi-pi!" and the Unlock LED (red) flashes at high speed. (Error display)

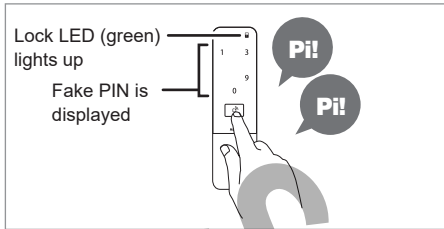
*4 If using a master card, keep on holding it over the reader for 5 seconds.

Operation to unlock/lock a door from the outside (PIN pad)

Unlocking a door

① Press the Start button on the outside (reader unit) twice. (*1)

The Lock LED and a 2- to 4-digit number (fake PIN) light up. (*2 *3)

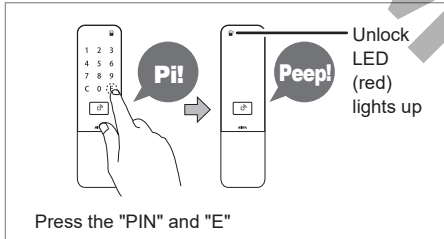


② Press all the numbers lit up.

The PIN pad is displayed after all the numbers are pressed.

③ Press the "user PIN" and "E". (*4 *5)

The Unlock LED lights up and the door is unlocked. (*6)

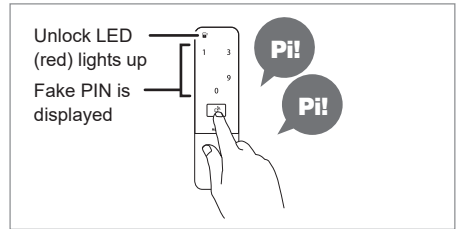


④ Open the door.

Locking a door

① Press the Start button on the outside (reader unit) twice. (*1)

The Unlock LED and a 2- to 4-digit number (fake PIN) light up. (*2 *3)



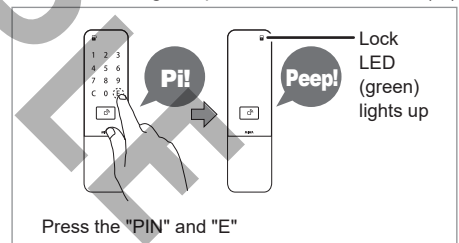
* If easy locking function is on, simply pressing the Start button locks the door. For details, refer to "Easy locking function" (Page 20).

② Press all the numbers lit up.

The PIN pad is displayed after all the numbers are pressed.

③ Press the "user PIN" and "E". (*4 *5)

The Lock LED lights up and the door is locked. (*6)



④ Check that the door does not open.

*1 If the authentication mode is set to "OR authentication, PIN overrides" or "PIN authentication only", press the Start button once.

*2 Fake PIN is a random number to enter before the PIN to prevent the PIN from being guessed from the fingerprint marks left.

*3 You can also configure the setting to eliminate the fake PIN entering process. For the setting procedure, refer to "Procedures for various settings" (Page 34).

*4 The device goes back to the sleep state if operation is not performed within 5 seconds. In that case, perform the operation from the beginning.

*5 If you mistake the PIN in the middle, press "C" short and enter the PIN again.

*6 If PIN pad authentication results in NG, the device makes a sound "Pi-pi-pi!" and the Unlock LED (red) flashes at high speed. (Error display)

Operation to unlock/lock a door from the outside (Card and PIN pad)

This section explains the operation to lock/unlock a door when the authentication mode is set to "AND authentication".

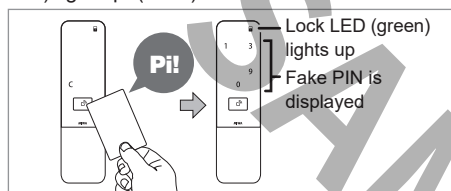
Unlocking a door

① Press the Start button on the outside (reader unit).

The Lock LED and "C" light up.

② Hold a user card over the reader within 5 seconds. (*1 *2 *6)

The Lock LED and a 2- to 4-digit number (fake PIN) light up. (*3 *4)

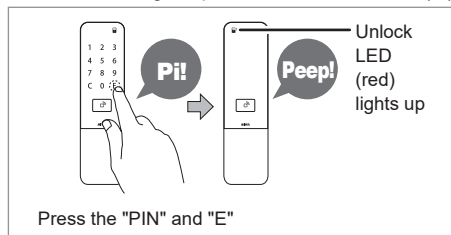


③ Press all the numbers lit up.

The PIN pad is displayed after all the numbers are pressed.

④ Press the "user PIN" and "E". (*1 *5)

The Unlock LED lights up and the door is unlocked. (*6)



⑤ Open the door.

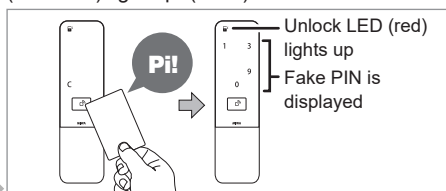
Locking a door

① Press the Start button on the outside (reader unit).

The Unlock LED and "C" light up.

② Hold a user card over the reader within 5 seconds. (*1 *2 *6)

The Unlock LED and a 2- to 4-digit number (fake PIN) light up. (*3 *4)

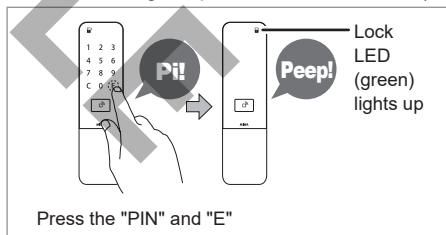


③ Press all the numbers lit up.

The PIN pad is displayed after all the numbers are pressed.

④ Press the "user PIN" and "E". (*1 *5)

The Lock LED lights up and the door is locked. (*6)



⑤ Check that the door does not open.

*1 The device goes back to the sleep state if operation is not performed within 5 seconds. In that case, perform the operation from the beginning.

*2 If using a master card, keep on holding it over the reader for 5 seconds.

*3 Fake PIN is a random number to enter before the PIN to prevent the PIN from being guessed from the fingerprint marks left.

*4 You can also configure the setting to eliminate the fake PIN entering process. For the setting procedure, refer to "Procedures for various settings" (Page 34).

*5 If you mistake the PIN in the middle, press "C" short and enter the PIN again.

*6 If card authentication or PIN authentication results in NG, the device makes a sound "Pi-pi-pi!" and the Unlock LED (red) flashes at high speed. (Error display)

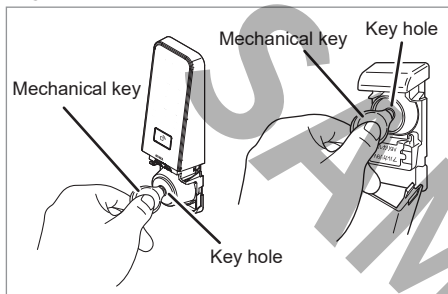
Operation to unlock/lock a door from the outside (Mechanical key)

Locking/Unlocking a door

① Open the upper/lower cylinder cover.

For procedure to remove the cylinder cover, refer to "How to remove and attach the cylinder cover" (Page 15).

② Fit the mechanical key into the keyhole, and lock or unlock the door.



③ When you lock the door, make sure that the door does not open.

When you unlock the door, make sure that the door opens.

④ After locking/unlocking the door, close the upper/lower cylinder cover.

For procedure to attach the cylinder cover, refer to "How to remove and attach the cylinder cover" (Page 15).

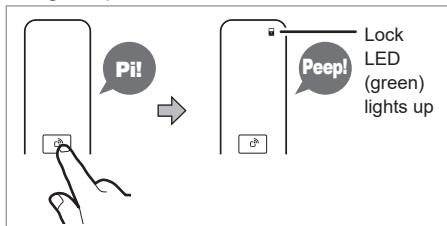
Convenient functions you should know

Easy locking function

This function allows you to lock a door by simply pressing the Start button.

Operation procedure:

Press the Start button during unlocked. The Lock LED lights up and the door is locked.



Conditions to enable easy locking function:

- Easy locking function is set to ON. (It is set to ON at factory settings.)
- A lockable/unlockable PIN corresponding to the room status (under construction, vacant, occupied) is registered.
- * Easy locking function is not available in the following cases.
 - The authentication mode is set to "AND authentication" or "Card authentication only".
 - "Shutout PIN" is set to ON.
 - The emergency power supply is activated.
 - The device is in the mischief-preventing state.

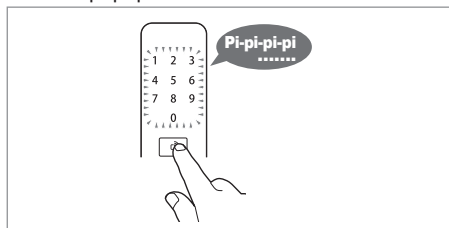
Auto-lock function

If the auto-lock function is enabled, DTFL2B Card Lock automatically locks the door when the door is closed or when 20 seconds elapse without opening the door after it is unlocked by electric operation (operation by card key or PIN).

- * The auto-lock function can be enabled only if pairing with the door open/close sensor is completed.
- * When you set the Auto-lock ON, adjust the time before the locking works by configuring "Auto-lock wait time setting", because the door closing speed and the sensing range of sensor vary by door. (For information on the time to set, refer to "System settings that can be configured" (Page 32).)
- * If you use only card to operate the lock, make sure not to close the door with the card key left in the room when you take luggage in and out or do other works after unlocking the door by electric operation. Otherwise, you may be locked out.
- * For security reasons, even when you operate the lock with the auto-lock function, make sure the door is closed and locked by visual check, etc.

Mischief prevention

This is a function to disable operations of cards and the PIN pad for 3-4 minutes if authentication results in NG 5 consecutive times regardless of the authentication method. When the device is in the mischief-preventing state: Pressing the Start button makes the numbers 0-9 on the PIN pad flash (at high speed) and makes a sound "Pi-pi-pi-...." for 10 seconds.



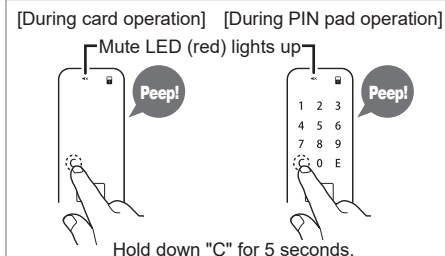
- * Cards and the PIN pad go back to the operable state after a lapse of 3 minutes to 4 minutes. If you try to operate them before the mischief-preventing state is cleared, the mischief-preventing period is extended for another 3 minutes to 4 minutes.

Muting buzzer

You can switch ON/OFF the buzzer sound made during operation.

Procedure to switch ON/OFF:

Hold down "C" for 5 seconds during card or PIN pad operation. Buzzer ON/OFF is switched every time the operation is performed.

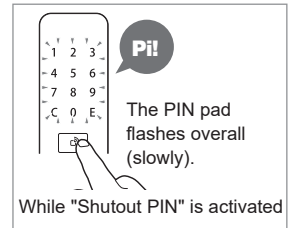


- * When the buzzer sound is set to OFF, the Mute LED on the PIN pad panel lights up during operation.
- * Even if the buzzer sound is set to OFF, the buzzer is activated when you perform various settings or registration/deletion, and at the time of power activation, device malfunction, lock/unlock error, and warning for low battery.

Shutout PIN

When you leave the room for a long time, you can use this function to temporarily prohibit PIN pad operation (locking/unlocking by PIN). After you set on "Shutout PIN", the PIN pad flashes overall (slowly) when someone tries to operate it, making it impossible to enter a PIN.

* This option can not be used when the authentication mode is set to "AND authentication".



■ Setting procedure

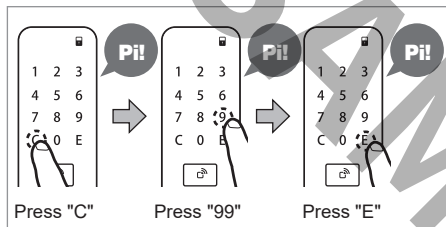
❶ Press the Start button twice. (*1)

The Lock (or Unlock) LED and fake PIN light up.

❷ Press all the numbers lit up.

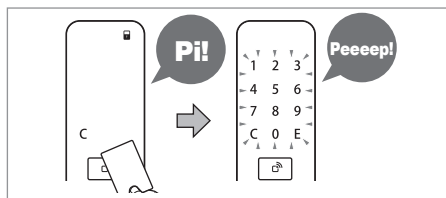
The PIN pad is displayed after all the numbers are pressed.

❸ Press "C" → "99" → "E".

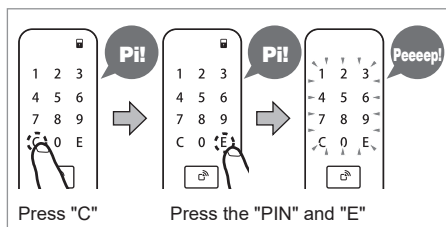


❹ Hold a lockable/unlockable card over the reader. Or press "C" → "Administrator's PIN" → "E". (*2)

The PIN pad flashes overall 3 times and the "Shutout PIN" is activated.



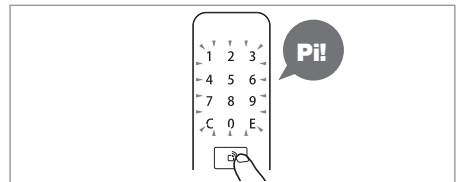
Or



■ Canceling procedure

❶ Press the Start button twice. (*1)

The PIN pad flashes overall (slowly).

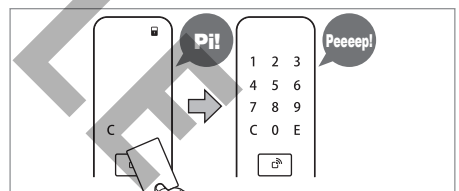


❷ Press "C".

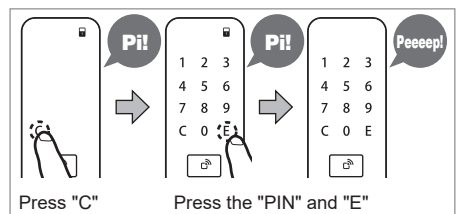
The Lock LED and "C" light up.

❸ Hold a lockable/unlockable card over the reader. Or press "C" → "Administrator's PIN" → "E". (*2)

The PIN pad lights up overall and the "Shutout PIN" is canceled.



Or

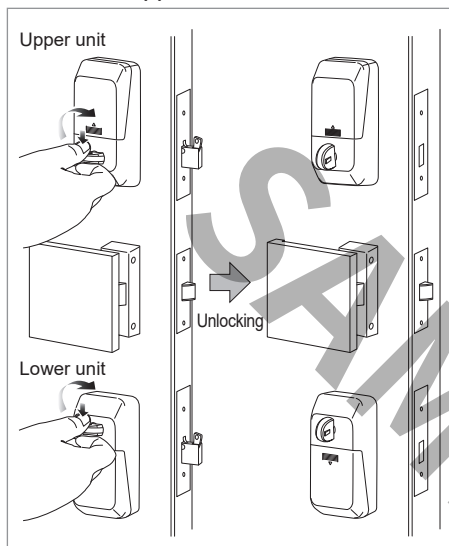


- *1 If the authentication mode is set to "OR authentication, PIN overrides" or "PIN authentication only", press the Start button once.
- *2 If using a master card, keep on holding it over the reader for 5 seconds.

Operation to unlock/lock a door from the inside

Unlocking a door

- 1 To unlock the door, turn the switched crime preventive thumb-turn while holding the unlocking switch on its both sides. (*)

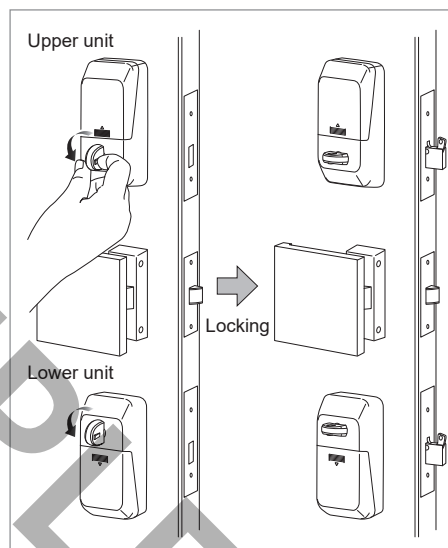


- 2 Open the door.

Locking a door

- 1 To lock the door, turn the switched crime preventive thumb-turn on the upper unit. (*)

When the lower unit follows up to lock the door (locking follow-up function), the device makes a sound "Pi!"



- 2 Check that the door does not open.

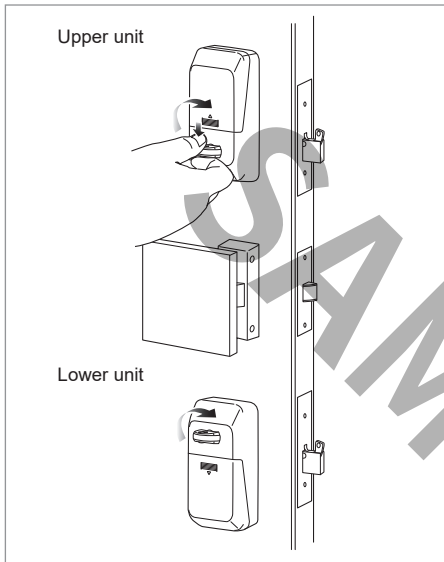
* The direction to turn the switched crime preventive thumb-turn depends on the setting of right and left handed types. For the setting procedure, see "Setting the right and left handed types" (Page 29).

* Lower unit is not provided in the case of 1-lock spec.

Locking follow-up function

DTFL2B Card Lock has locking follow-up function that allows you to easily lock the upper and lower units by operation of a key or switched crime preventive thumb-turn.

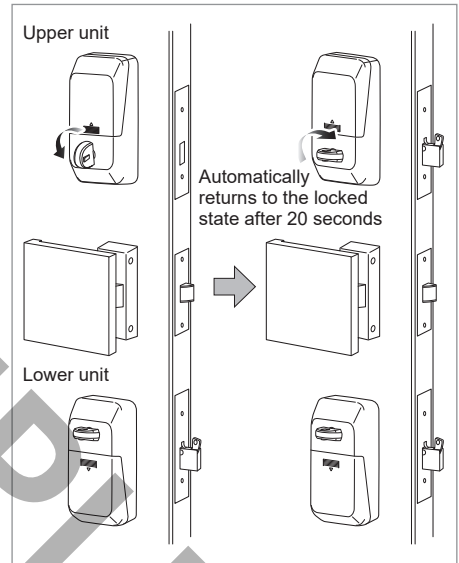
Locking the upper unit makes the electric lock of the lower unit follow it up and automatically get locked. (*1)



*1 If the lower unit is locked by a key or switched crime preventive thumb-turn, the upper unit is not automatically locked. This can avoid getting you locked out due to accidental locking by a small child who can not reach the upper unit.

Locking reset function

As a measure against lock-picking and thumb-turning, DTFL2B Card Lock provides locking recovery function. When one unit is unlocked by a key or switched crime preventive thumb-turn, unless the other unit is unlocked within 20 seconds, this functions works to automatically reset the unit to the locked state. (*2)



*2 Locking reset also works when only the lower unit is unlocked.

Battery replacement

When the battery is close to its end of life, pressing the Start button on the outside causes the device to make a sound "Peep!" and the battery LEDs to flash as shown below.

To replace batteries on the inside, get ready four AA alkaline batteries or AA lithium batteries (in the case of 2-lock specification, a total of 8 batteries for the upper and lower units), and replace the batteries.

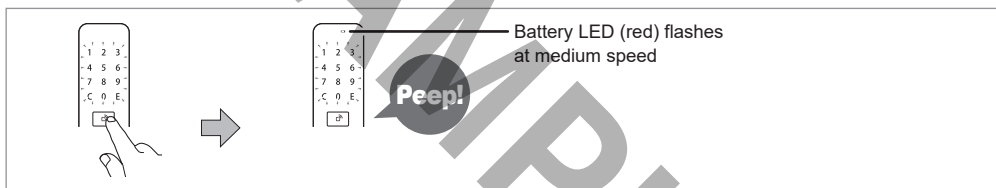
- * The battery life is approximately 1 year on the assumption of performing locking/unlocking operations 10 times a day.
- * In a cold district (under 0°C), use AA lithium batteries (Recommended battery: Energizer battery equivalent to LIT BAT AA). Alkaline batteries are supposed to be used in the temperature of 0°C or higher.
- * For procedure to unlock a door when unlocking is disabled for battery exhaustion, refer to "When unlocking is disabled for battery exhaustion" (Page 27).

⚠ Do not insert batteries vice versa. Otherwise the product will be broken.

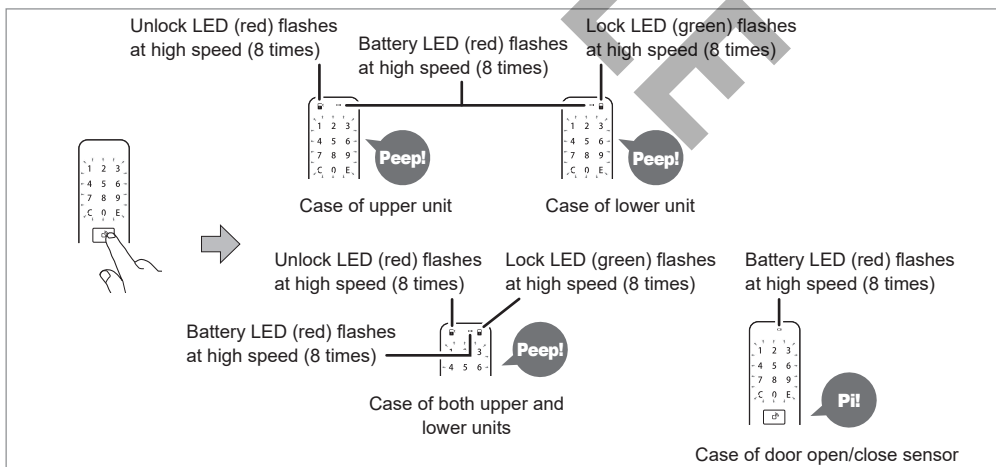
⚠ Do not mix old and new batteries.

⚠ Do not mix alkaline and lithium batteries.

■ Low battery warning



■ Empty battery



- * For procedure to unlock a door when unlocking is disabled for battery exhaustion, refer to "When unlocking is disabled for battery exhaustion" (Page 27).

Replacing batteries on the inside

❶ Remove the battery cover on the inside.

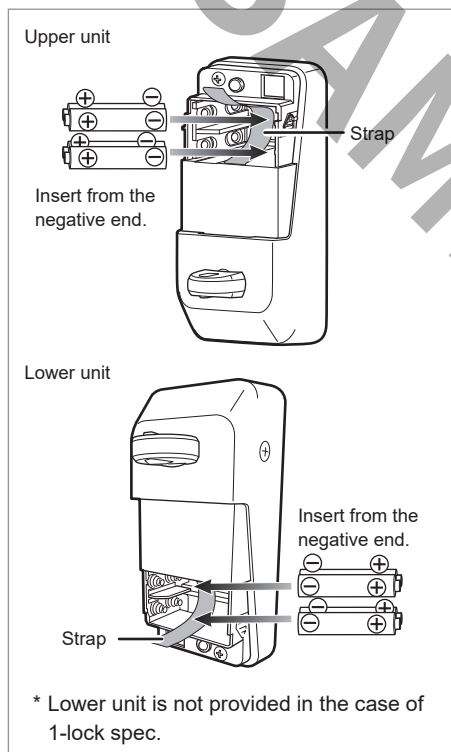
For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

❷ Remove the old batteries and replace them with new ones.

After removing the two old batteries on the near side, pull the strap to remove the remaining two batteries. When setting new batteries, push the strap into the back of battery box so that it is placed under the batteries, and insert batteries from the negative end, paying attention to the polarity.

❸ Attach the battery cover.

For procedure to attach the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

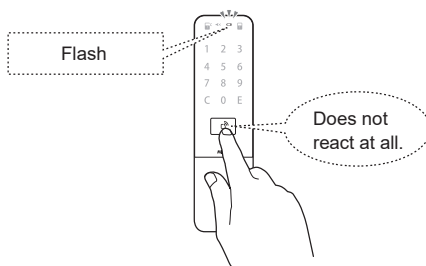


When unlocking is disabled for battery exhaustion

This section explains how to unlock a door in the case unlocking is disabled for battery exhaustion.

If you press the Start button on the outside (reader unit) but the device does not function, and you see the following conditions, then it may indicate the batteries have run out.

- The battery LED flashes twice (at medium speed) and the device makes a sound "Peep!"
- The battery LED flashes 8 times (at high speed) and the device makes a sound "Peeeeeep!"
- The device does not react at all when you press the Start button.



* Operations for various setting and registration/deletion can not be performed while the emergency power supply is activated.

* Easy locking function is not available while the emergency power supply is activated.

① Get ready 1 rectangular 9V battery for 1-lock spec, or 2 for 2-lock spec.

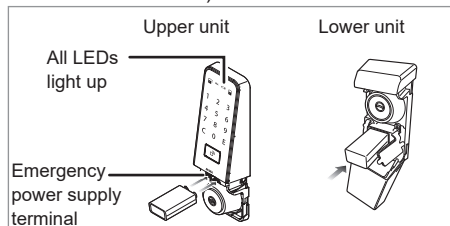
② Open the cylinder cover.

For procedure to open the cylinder cover, refer to "How to remove and attach the cylinder cover" (Page 15).

③ For the upper unit, bring the rectangular 9V battery terminal into firm contact with the emergency power supply terminal under the cylinder cover. For the lower unit, insert the rectangular 9V battery terminal.

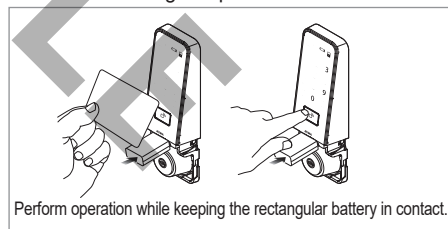
Set the battery in the correct orientation (+ / -) to fit the emergency power supply terminal,

The battery LED lights up. Then the device resumes the normal display for card operation or PIN pad operation (the state after pressing the Start button once).



④ Keep the rectangular 9V battery in contact, and perform card operation or PIN pad operation. (*)

You can perform operations in the same procedure as in normal mode. If the mode is set to "OR authentication", pressing the Start button switches the operation method between card operation and PIN pad operation. If the mode is set to "AND authentication", first perform card operation, then PIN pad operation. The Unlock LED lights up and the door is unlocked.



* In the case of 2-lock spec, it may take about 10 seconds for the paring to recover. Keep the rectangular 9V battery firmly in contact until you can confirm both the upper and lower units are unlocked.

⑤ Open the door.

Replace the batteries at the earliest time possible after unlocking the door. For procedure to replace batteries, refer to "Battery replacement" (Page 25).

* If using a master card, keep on holding it over the reader for 5 seconds.

Settings

Flow of settings

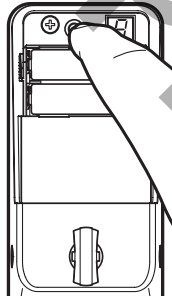
This "Settings" chapter provides explanation on setting the right and left handed types of DTFL2B Card Lock (Page 29), system settings (Page 32), and registering/deleting cards and PINs (Page 46).

- Setting the right and left handed types : Configure the setting of direction to turn the thumb-turn for locking.
- System settings : Configure detailed settings for system operation.
- Registering and deleting cards : The administrator or users (residents) perform registration, deletion, and confirmation of different types of cards.
- Registering and deleting PINs : The administrator or users (residents) perform registration, changes, deletion, and confirmation of different types of PINs.

Set button

For system setting and registering/deleting cards and PINs, you need to press the Set button under the battery cover on the inside to change the mode.

 Perform these operations in the unlocked state. The operations are disabled in the locked state.



- Press the Set button (short press): Shifts to the mode for registering/deleting cards and PINs.
- Hold down the Set button for 3 seconds (long press): Shifts to the mode for configuring various system settings.

* For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

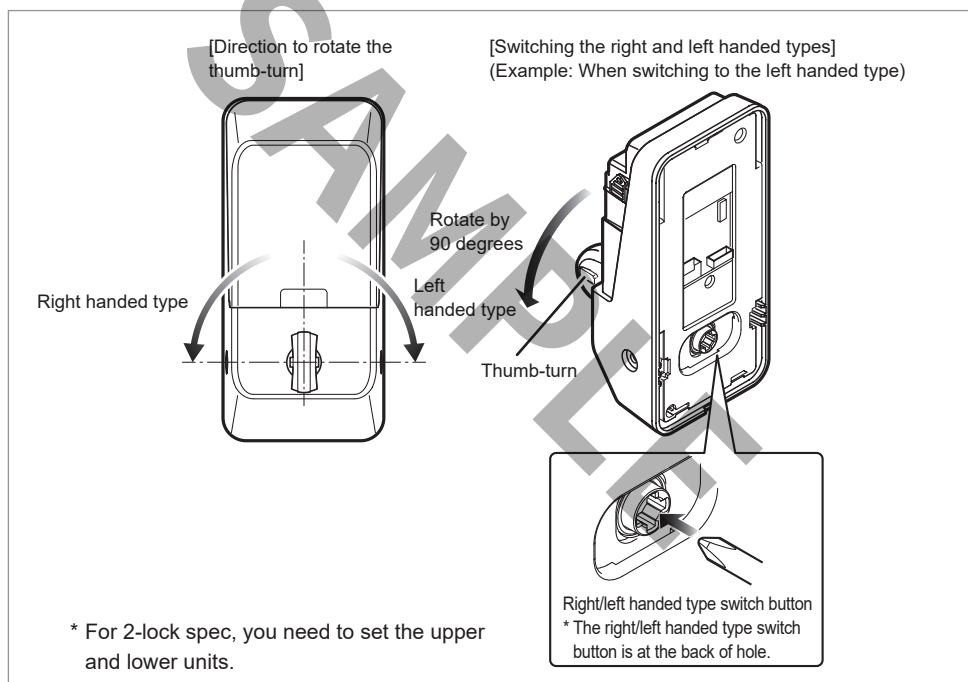
Setting the right and left handed types

Direction to turn the thumb-turn for locking

Setting the right and left handed types consists of two methods; Physical setting determined when the device is installed, and systematic setting configured after installation. To change the right and left handed types of the device, be sure to configure the setting in both methods. (The device is set to the right handed type at factory default.)

- Right handed type: The dead bolt (latch) is positioned to the right when seen from the inside.
- Left handed type: The dead bolt (latch) is positioned to the left when seen from the inside.

■ Physical setting determined when the device is installed



With the thumb-turn at the vertical position, use a long thin stick to push in the right/left handed switch button at the back of the main unit on the inside. While keeping the button pushed inside, rotate the thumb-turn by 90 degrees to make it horizontal, then release the button.

- To set the device to left handed type: Rotate the thumb-turn clockwise by 90 degrees.
- To set the device to right handed type: Rotate the thumb-turn counterclockwise by 90 degrees.

* After changing the type, look at the inside of the main unit as shown in the figure to confirm the rotating direction of the thumb-turn.

* Do not push it in too hard. Doing so can damage parts and cause a failure.

■ Systematic setting configured after installation

The device is set to the right handed type at factory default. Setting is not necessary if the door is right handed type.

To change the right and left handed type, configure the setting as follows.

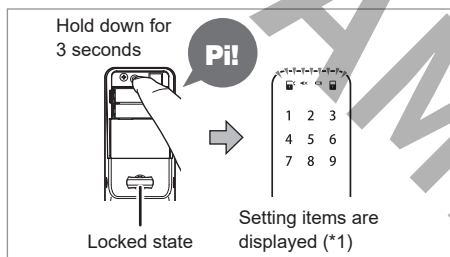
* The device goes back to the sleep state if operation is not performed for 10 seconds while setting the right and left handed types.

❶ Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 15).

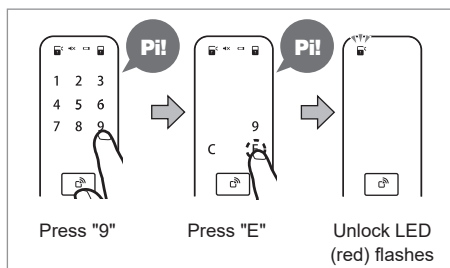
❷ Hold down the Set button for 3 seconds in the locked state.

The device makes a sound "Pi!", and the Lock/Unlock LED, Mute LED, and Battery LED flash, then the numbers for the selectable setting items light up.



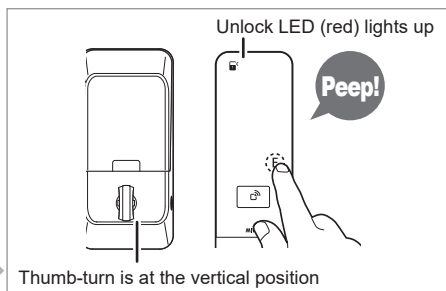
❸ Press "9" → "E" to select the setting of right and left handed types.

The Lock LED (red) flashes.



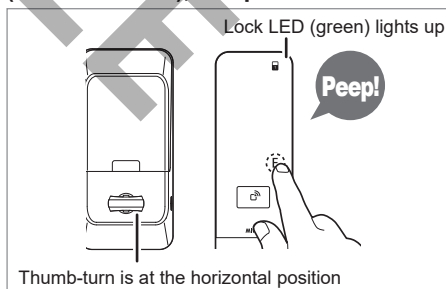
❹ Set the thumb-turn at the vertical position (unlocked state *1), and press "E".

The device makes a sound "Peep!" and the Unlock LED lights up, then goes off, and the Lock LED flashes.



* For 2-lock spec, set the the switched crime preventive thumb-turn on the upper and lower unit at the vertical position (unlocked state).

❺ When the Lock LED (green) flashes, set the thumb-turn at the horizontal position (locked state *2), and press "E".



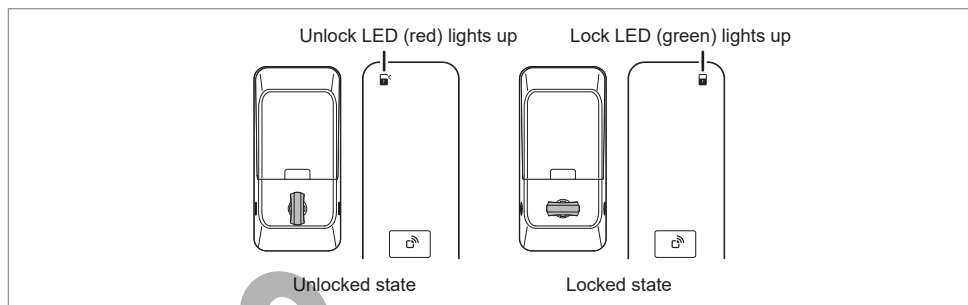
* For 2-lock spec, set the the switched crime preventive thumb-turn on the upper and lower unit at the vertical position (unlocked state).

*1 With the thumb-turn set at the vertical position, make sure the dead bolt (latch) is withdrawn.

*2 With the thumb-turn set at the horizontal position, make sure the dead bolt (latch) is extended.

■ Confirmation after setting the right and left handed types.

After setting the right and left handed types, press the Start button, and operate the thumb-turn with the Lock/Unlock LED displayed. Make sure that the state of the thumb-turn matches the state of the Lock/Unlock LED.



System settings

This section discusses configurable detailed settings of the system and the procedures to configure them.

System settings that can be configured

■ List of various settings

Setting item	Page	Item No.	Setting options (Those with * are the default.)	Setting value	Details of setting option
Operation mode (Only confirmation is possible)	1	1	FKLID mode *	2	Key data of FKL lock system issued by MIWA Lock is used as an authentication ID in this mode. FKL card and FL key head can be used.
			Guest's arbitrary ID mode	3	A guest's specified card (specified area card) or Edy. number is used as an authentication ID in this mode. FeliCa and Mifare (Classic 1K/4K) can be used. You need a special setting card (initial card) prepared by MIWA Lock to set this mode.
Authentication mode		2	OR authentication, Card overrides *	1	Locking/unlocking is performed by authentication using either a card or a PIN. Press the Start button 1 time: Card authentication Press the Start button 2 times: PIN authentication
			OR authentication, PIN overrides	2	Locking/unlocking is performed by authentication using either a card or a PIN. Press the Start button 1 time: PIN authentication Press the Start button 2 times: Card authentication
			AND authentication	3	Locking/unlocking is performed by authentication using both a card and a PIN.
			Card authentication only	4	Locking/unlocking is performed by only card authentication.
			PIN authentication only	5	Locking/unlocking is performed by only PIN authentication.
Special setting in occupancy (PIN authentication not allowed while in occupancy)		3	ON	1	Even if the authentication mode is set to OR authentication, PIN authentication is not allowed and locking/unlocking is performed only by card authentication while in occupancy.
			OFF *	0	The above setting option is not on.
Fake PIN		4	ON *	1	Fake PIN is entered before a PIN.
			OFF	0	The above operation is not performed.
Mischief prevention		5	ON *	1	If authentication results in NG 5 consecutive times regardless of the authentication method, operations of cards and the PIN pad are disabled for 3-4 minutes.
			OFF	0	The above operation is not performed.
Easy locking function		6	ON *	1	Simply pressing the Start button can lock a door. (This option is available only when the authentication mode is set to "OR authentication" or "PIN authentication only", and a PIN is registered.
			OFF	0	The above operation is not performed.

Setting item	Page	Item No.	Setting options (Those with * are the default.)	Setting value	Details of setting option
Lock/ Unlock LED displayed at start-up	1	7	ON *	1	The Lock/Unlock LED is displayed when the device is started up.
			OFF	0	The above operation is not performed. (The Lock/Unlock LED is displayed after lock/unlock operation.)
Auto-lock setting		8	ON	1	If the door is unlocked by electric operation, the door is automatically locked when the door is opened and closed, or when a certain period of time elapses.
			OFF *	0	The above operation is not performed.
Right/left handed type setting		9	Right handed type *	None	Set the direction to turn the thumb-turn for locking so that it meets the openable side of the door.
			Left handed type		
BLE setting	2	1	Lower unit	Pairing	Set BLE pairing for the main lock and auxiliary lock, door open/close sensor, and I/F unit (to be obtained separately). Select the target devices and configure the BLE pairing setting. (For spec of 2-lock and door open/close sensor, pairing of upper/lower units and door open/close sensor are already completed when the product is shipped.)
				Cancel	
			Door open/close sensor	Pairing	
				Cancel	
			I/F unit	Pairing	
				Cancel	
Time setting		2	Not used		
Auto-lock wait time setting		3	2 *	1-9	Specify the wait time before the thumb-turn operates after the door is closed and the open/close sensor detects the closed status. * The time before the function operates is determined by the set value. e.g.) Set value 1: approx. 1 sec., Set value 2: approx. 2 sec.

- ⚠ Operation mode, authentication mode, and special setting in occupancy can be selected only while the room is under construction or vacant. (They can not be selected while the room is occupied.) For information on room status, refer to "Room status" (Page 47).
- ⚠ After changing the operation mode or authentication mode, all the registered information of cards and PINs are deleted.
- ⚠ Displayed setting items can be changed by short-press of "C". Initially, page 1 is displayed.

Procedures for various settings (except BLE setting)

Various settings can be configured after switching the mode with the Set button.

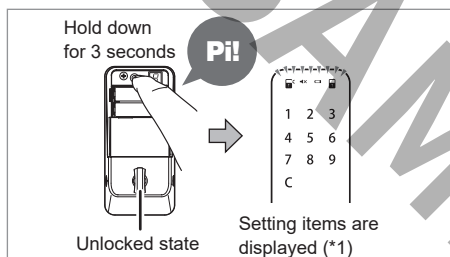
- * The device goes back to the sleep state if operation is not performed for 10 seconds while configuring the system settings. It also goes back to the sleep state when the Start button is pressed in the process of operation.

① Remove the battery cover on the inside.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

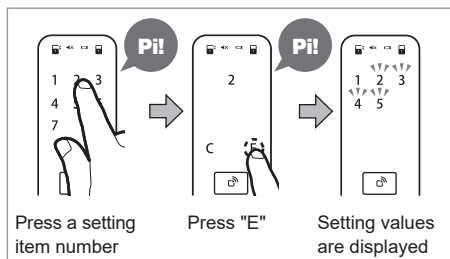
② Hold down the Set button for 3 seconds in the unlocked state.

The Lock/Unlock LED, Mute LED, and Battery LED flash, and the numbers for the selectable setting items light up. For information on setting items, see "List of various settings" (Page 32).



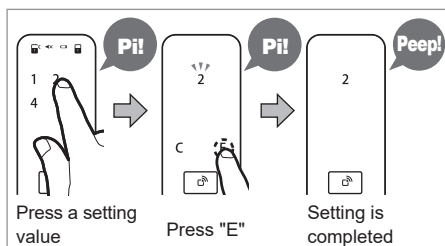
③ Press "Setting item number" → "E" to select a setting item. (*2)

The current setting value lights up, and selectable setting values flash. For information on setting item numbers and setting values, see "List of various settings" (Page 32).



④ Press "Setting value" → "E" to select a setting option. (*2)

When the device makes a sound "Peep!" and the selected setting value lights up, the setting is completed.



⑤ Setting is completed.

After the setting is completed, the device goes back to the display to select a setting item number of step 2. To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

*1 If the room is occupied, number 1-3 are not displayed (setting disabled). For information on room status, refer to "Room status" (Page 47).

*2 To reselect a setting item and a setting value, press "C" short to display the item numbers and setting values again.

BLE setting

BLE setting of the upper and lower units

DTFL2B Card Lock realizes wireless linking between the upper unit and the lower unit by Bluetooth (for 2-lock spec only). Pairing of the included upper unit and lower unit is already completed when the product is shipped. To change the pair combination, follow the steps below to set/cancel the pairing.

Setting pairing

- Perform the pairing work in the order of the upper unit → lower unit.
- Ensure that no pairing work for other DTFL2B Card Lock product is performed in the vicinity.
- Make sure to test the operation after the pairing work.

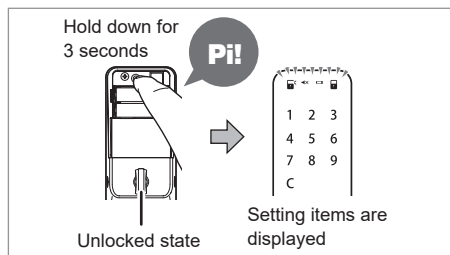
■ Operation of the upper unit

- 1 Remove the battery cover of both the upper and lower units on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

- 2 Hold down the Set button for 3 seconds in the unlocked state.

The device makes a sound "Pi!", and the Lock/Unlock LED, Mute LED, and Battery LED flash, then the numbers for the selectable setting items light up.

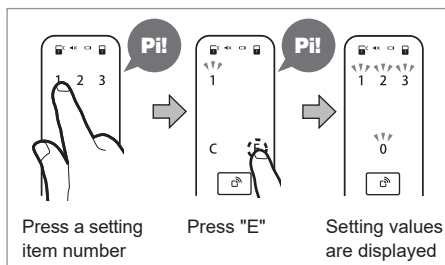


- 3 Press "C" short to display the menu of page 2.

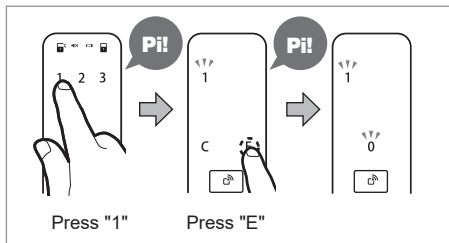


- 4 Press "1" → "E" to select the BLE setting.

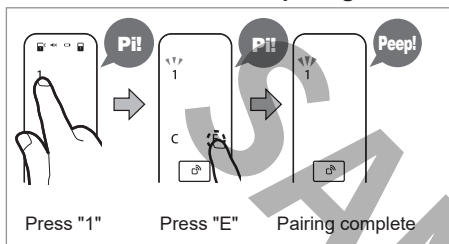
The current setting value lights up, and selectable setting values flash. For information on setting item numbers and setting values, see "List of various settings" (Page 32).



- 5 Press "1" → "E" to select the auxiliary lock (lower unit).**



- 6 Press "1" → "E" to start paring .**



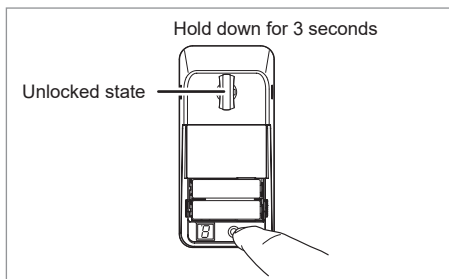
Configure the setting for the lower unit while "1" of the upper unit is flashing slowly. The operation times out in about 1 minute.

■ Operation of the lower unit

As the lower unit is installed upside down, what is displayed on the display area is also upside down before paring is completed.

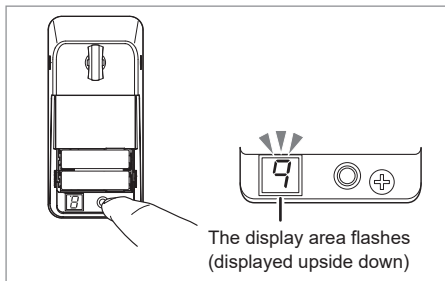
- 7 Hold down the Set button for 3 seconds in the unlocked state.**

The display area lights up.



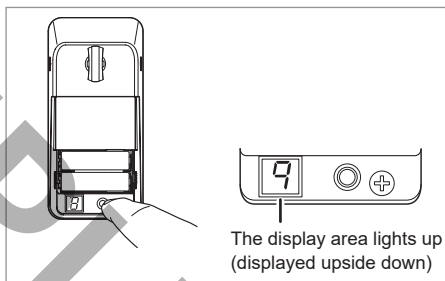
- 8 Press the Set button short until the  (BLE setting) is displayed on the display area.**

The display area flashes.



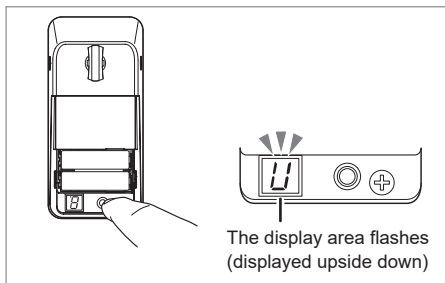
- 9 Hold down the Set button and determine the  (BLE setting).**

The display area lights up.



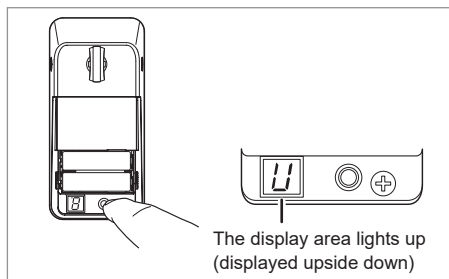
- 10 Press the Set button short until the  (main lock) is displayed on the display area.**

The display area flashes.



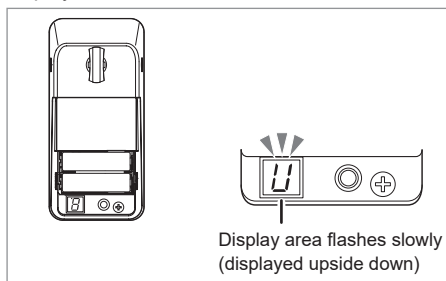
- 11 Hold down the Set button and determine the  (main lock).**

The display area lights up.



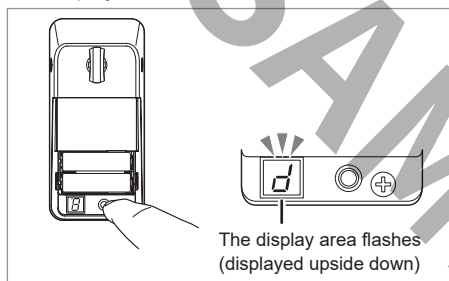
- 12 Hold down the Set button and determine the  (pairing).**

 is determined, then  flashes slowly in the display area.



- 13 Press the Set button short until the  (paring) is displayed on the display area.**

The display area flashes.



- 14 Pairings for the upper and lower units have been completed.**

The device makes a sound "Peep!" and the display area of the lower unit lights up.

If the pairing fails to be completed or times out, perform the operation from the beginning.

Canceling pairing

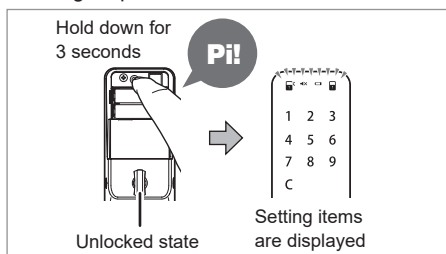
■ Operation of the upper unit

- 1 Remove the battery cover of both the upper and lower units on the inside in advance.**

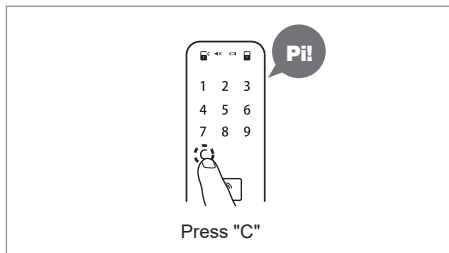
For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

- 2 Hold down the Set button for 3 seconds in the unlocked state.**

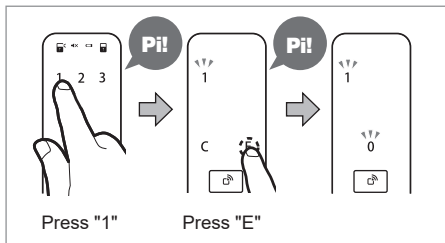
The device makes a sound "Pi!", and the Lock/Unlock LED, Mute LED, and Battery LED flash, then the numbers for the selectable setting items light up.



- ③ Press "C" short to display the menu of page 2.

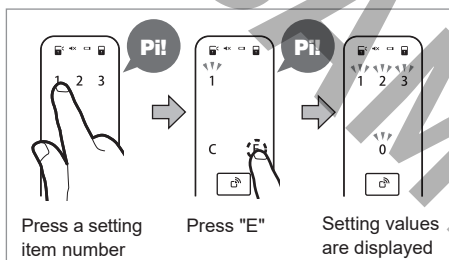


- ⑤ Press "1" → "E" to select the auxiliary lock (lower unit).

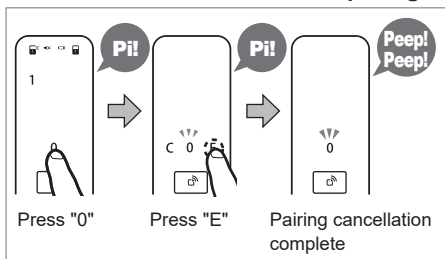


- ④ Press "1" → "E" to select the BLE setting.

The current setting value lights up, and selectable setting values flash. For information on setting item numbers and setting values, see "List of various settings" (Page 32).

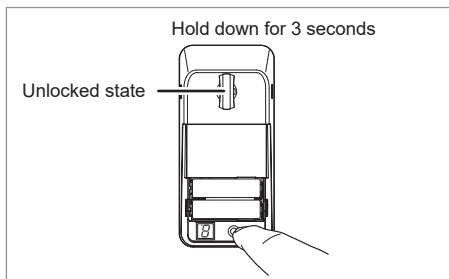


- ⑥ Press "0" → "E" to cancel the pairing.



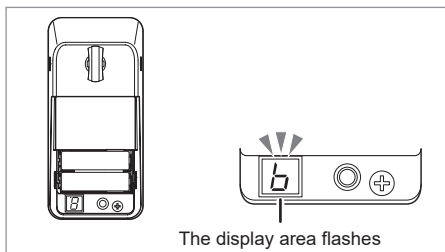
■ Operation of the lower unit

- ⑦ Hold down the Set button for 3 seconds in the unlocked state.



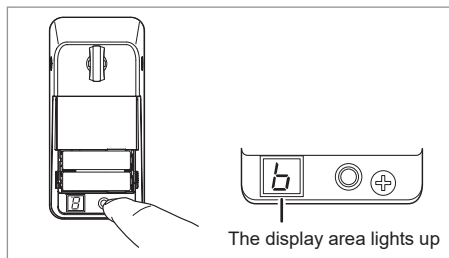
- ⑧  (BLE setting) is displayed on the display area.

The display area flashes.

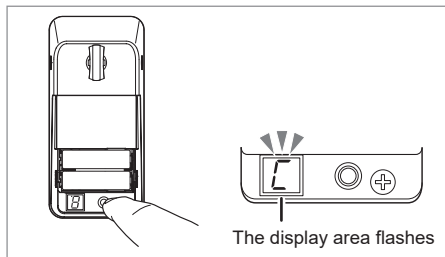


- ⑨ Hold down the Set button and determine the  (BLE setting).

The display area lights up.

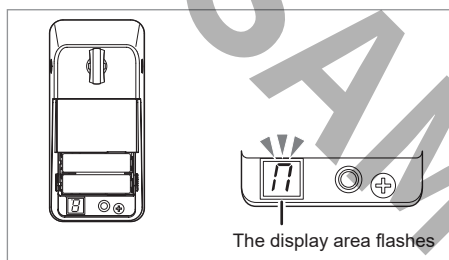


- ⑫ Press the Set button (short press) until the  (Cancel) is displayed on the display area.



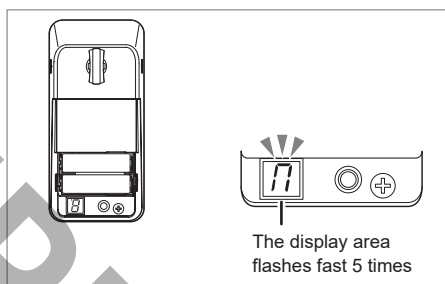
- ⑩  (main lock) is displayed on the display area.

The display area flashes.

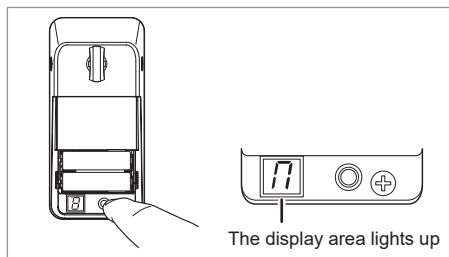


- ⑬ Hold down the Set button and determine the  (Cancel).

The display area  flashes fast 5 times.

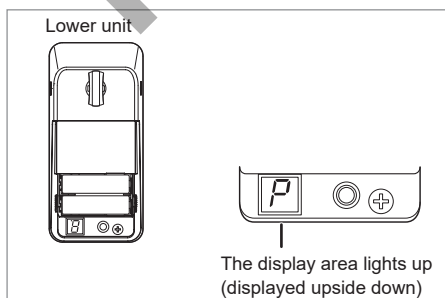


- ⑪ Hold down the Set button for 3 seconds and determine the  (main lock).



- ⑭ Pairing cancellation of the lower unit has been completed.

After the pairing is canceled, the display area of the lower unit displays the content upside down.



BLE setting between the upper unit and door open/close sensor

DTFL2B Card Lock realizes wireless linking between the upper unit and the door open/close sensor by BLE.

Paring of the included upper unit and the door open/close sensor is completed when the product is shipped. To change the pair combination, follow the steps below to set/cancel the paring.

* For procedure to install the door open/close sensor and to set the paring, refer to the operation manual of the door open/close sensor.

Setting pairing

- Perform the work in the order of the upper unit → door open/close sensor.
- Ensure that no paring work for other door open/close sensor is performed in the vicinity.
- Make sure to test the operation after the paring work.

■ Operation of the upper unit

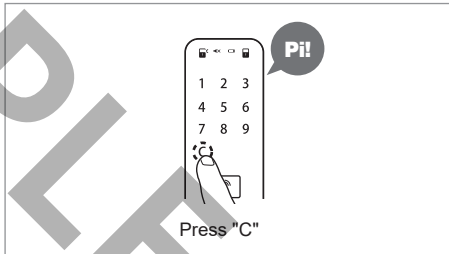
❶ Remove the battery cover of the upper unit on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

❷ Hold down the Set button for 3 seconds in the unlocked state.

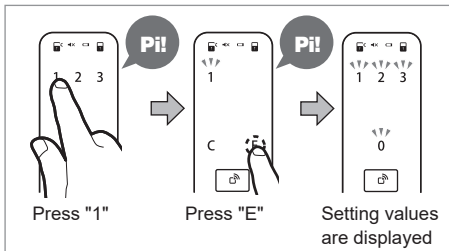
The device makes a sound "Pi!", and the Lock/Unlock LED, Mute LED, and Battery LED flash, then the numbers for the selectable setting items light up.

❸ Press "C" short to display the menu of page 2.

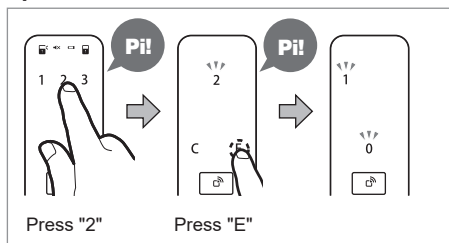


❹ Press "1" → "E" to select the BLE setting.

The current setting value lights up, and selectable setting values flash. For information on setting item numbers and setting values, see "List of various settings" (Page 32).

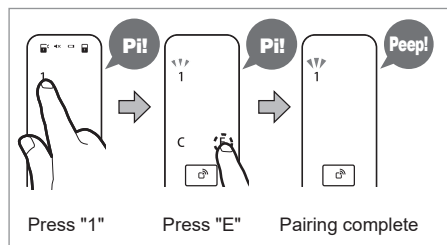


5 Press "2" → "E" to select the door open/close sensor.



6 Press "1" → "E" to start pairing.

The device makes a sound "Peep!" and the pairing is completed.



Configure the setting for the door open/close sensor side while "1" of the upper unit is flashing slowly. (For details, refer to the operation manual of the door open/close sensor).

The operation times out in about 1 minute.

Canceling pairing

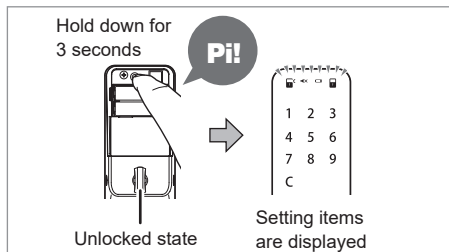
■ Operation of the upper unit

1 Remove the upper battery cover on the inside.

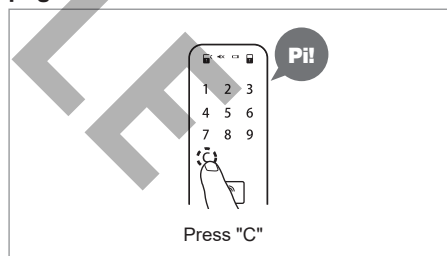
For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

2 Hold down the Set button for 3 seconds in the unlocked state.

The device makes a sound "Pi!", and the Lock/Unlock LED, Mute LED, and Battery LED flash, then the numbers for the selectable setting items light up.

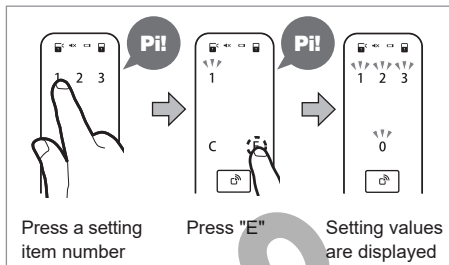


3 Press "C" short to display the menu of page 2.

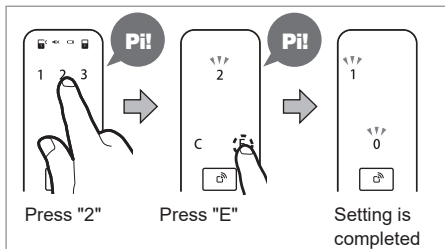


4 Press "1" → "E" to select the BLE setting.

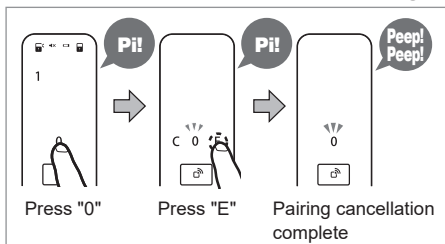
The current setting value lights up, and selectable setting values flash. For information on setting item numbers and setting values, see "List of various settings" (Page 32).



5 Press "2" → "E" to select the door open/close sensor.



6 Press "0" → "E" to cancel the pairing.



The device makes a sound "Peep!" and the pairing cancellation is completed.

BLE setting between the upper unit and I/F unit

DTFL2B Card Lock realizes wireless linking between the upper unit and I/F unit by BLE.

Pairing of the included upper unit and I/F unit is already completed when the product is shipped. To change the pair combination, follow the steps below to set/cancel the pairing.

* For procedure to install the I/F unit and to set the pairing, refer to the operation manual of the I/F unit.

Setting pairing

- Perform the pairing work in the order of the upper unit → I/F unit.
- Ensure that no pairing work for other I/F unit is performed in the vicinity.
- Make sure to test the operation after the pairing work.

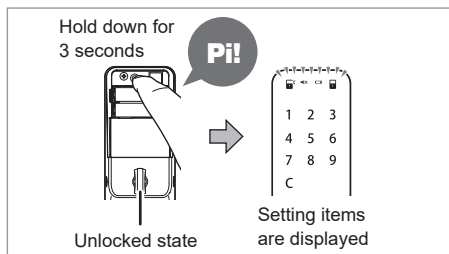
■ Operation of the upper unit

① Remove the battery cover of the upper unit on the inside in advance.

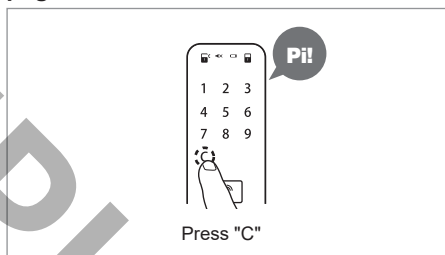
For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

② Hold down the Set button for 3 seconds in the unlocked state.

The device makes a sound "Pi!", and the Lock/Unlock LED, Mute LED, and Battery LED flash, then the numbers for the selectable setting items light up.

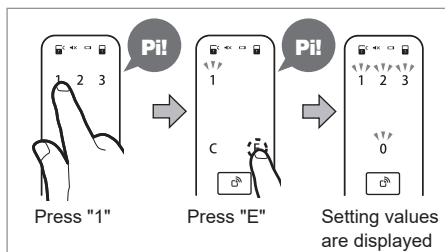


③ Press "C" short to display the menu of page 2.

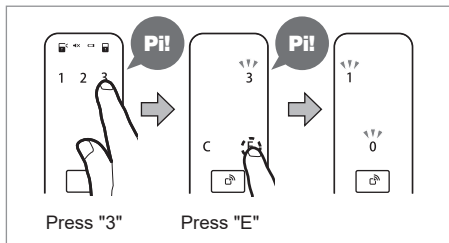


④ Press "1" → "E" to select the BLE setting.

The current setting value lights up, and selectable setting values flash. For information on setting item numbers and setting values, see "List of various settings" (Page 32).

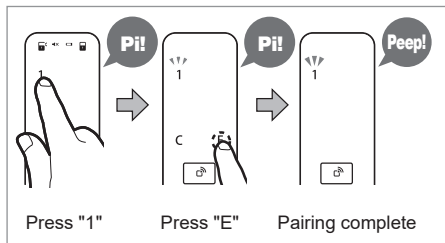


5 Press "3" → "E" to select the I/F unit.



6 Press "1" → "E" to start pairing.

The device makes a sound "Peep!" and the pairing is completed.



Configure the setting for the door open/close sensor side while "1" of the upper unit is flashing slowly. (For details, refer to the operation manual of the I/F unit.)

The operation times out in about 1 minute.

Canceling pairing

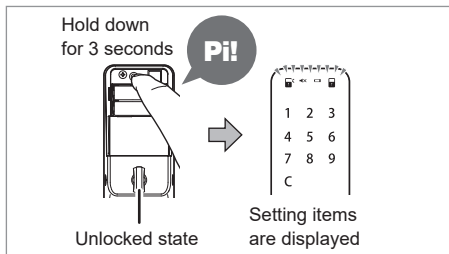
■ Operation of the upper unit

1 Remove the upper battery cover on the inside.

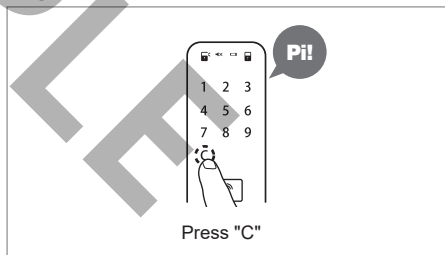
For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

2 Hold down the Set button for 3 seconds in the unlocked state.

The device makes a sound "Pi!", and the Lock/Unlock LED, Mute LED, and Battery LED flash, then the numbers for the selectable setting items light up.

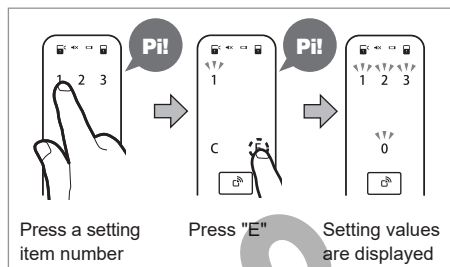


3 Press "C" short to display the menu of page 2.

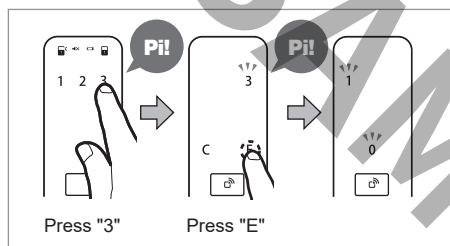


④ Press "1" → "E" to select the BLE setting.

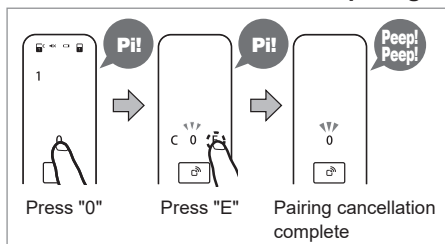
The current setting value lights up, and selectable setting values flash. For information on setting item numbers and setting values, see "List of various settings" (Page 32).



⑤ Press "3" → "E" to select the I/F unit.



⑥ Press "0" → "E" to cancel the pairing.



The device makes a sound "Peep!" and the pairing cancellation is completed.

Types of card and PIN

Card type

The followings are the types of RFID cards that can be used with DTFL2B Card Lock.

Card name	Maximum number of cards that can be registered	Description
Construction card	10	For the use of construction contractors. It is used to lock/unlock a door during the construction period. This card becomes invalid after the construction is completed and either of a vacancy card, registration card, user card, vacancy PIN, or user PIN is registered (although the registered information remains). After the vacancy card, registration card, user card, vacancy PIN, or user PIN is deleted, the registered construction card becomes valid again.
Vacancy card	20	For the use of interior/cleaning contractors and the management company. It is used to lock/unlock a door while in vacancy (state with no residents). Therefore, this card becomes invalid after a resident of the room is determined and either a registration card, user card, or user PIN is registered (although the registered information remains). After performing leaving operation (entire deletion of registration cards, user cards, user PINs, and administrator PIN), the registered vacancy card becomes valid again.
Registration card	5	To be held and used by residents of a room. It is used to lock/unlock a door while in occupancy. It is also used to register, delete, and confirm user cards and user PINs (while in occupancy). To register additional registration cards, a registered registration card is required.
User card	100	To be held and used by residents of a room. It is used to lock/unlock a door while in occupancy. To register user cards, a registered registration card or a registered master card is required.
Master Card	10	To be held and used by the owner. Locking/unlocking is possible in any state including under construction, vacancy, or occupancy (used for emergencies). To lock/unlock a door, press the Start button and keep on holding a master card over the reader for 5 seconds. Registration of a new master card is allowed only if no other cards or PINs are registered. To register additional master cards, a registered master card is required. This card can be used as a substitute for registration card to register/delete a user card or a user PIN.

* For information on room status, refer to "Room status" (Page 47).

Types of PIN

The followings are the types of PINs that can be used with DTFL2B Card Lock.

Types of PIN	Number of PINs that can be registered	Number of digits that can be registered	Description
Construction PIN	3	4-12	For the use of construction contractors. It is used to lock/unlock a door during the construction period. Just like construction card, this PIN becomes invalid after the construction is completed and either of a vacancy card, registration card, user card, vacancy PIN, or user PIN is registered (although the registered information remains). After the vacancy card, registration card, user card, vacancy PIN, or user PIN is deleted, the registered construction PIN becomes valid again.
Vacancy PIN	3	4-12	For the use of interior/cleaning contractors and the management company. It is used to lock/unlock a door while in vacancy (state with no residents). Just like vacancy card, this PIN becomes invalid after a resident of the room is determined and either a registration card, user card, or user PIN is registered (although the registered information remains). After performing leaving operation (entire deletion of registration cards, user cards, user PINs, and administrator PIN), the registered vacancy PIN becomes valid again.
User PIN	9	4-12	To be used by residents of a room. It is used to lock/unlock a door while in occupancy. To register a user PIN, either a registered registration card, a registered master card, or a user PIN is required. (If the room has not become occupied, it can be registered without the above card/PIN. In that case, however, new registration of registration card is not possible.)
Administrator PIN	1	4-12	To be used by residents of a room. It is used to set and cancel "Shutout PIN". To change an administrator PIN, a registered administrator PIN is required.

* If the authentication mode is set to "Card authentication only", then no PIN can be registered.

* If the authentication mode is set to "AND authentication", each registered card is associated with a 4-digit (fixed) PIN, regardless the type of the PIN.

Room status

The room status changes according to the registration status of respective cards and PINs as follows.

Card/PIN	Room status		
	Under construction	Vacant	Occupied
Construction card	The room status does not change according to the registration status.		
Construction PIN			
Vacancy card	Unregistered	At least one is registered.	The room status does not change according to the registration status.
Vacancy PIN			
Registration card		Unregistered	At least one is registered.
User card			
User PIN			
Master Card	The room status does not change according to the registration status.		
Administrator PIN			

Registration/deletion of card and PIN

This section discusses the registration/deletion operation of various types of cards/PINs.

⚠ After registering a card or a PIN, make sure the registered card or PIN can be used.

* The device goes back to the sleep state if operation is not performed for 10 seconds while in registration/deletion operation. It also goes back to the sleep state when the Start button is pressed in the process of operation.

Registration/deletion items

■ List of registration/deletion items

Registration/deletion items	Item No.	Description	Room status which allows the setting		
			Under construction	Vacant	Occupied
Construction card	1	Register/delete a construction card, and confirm the registration address.	○	×	×
Vacancy card	2	Register/delete a vacancy card, and confirm the registration address.	○	○	×
Registration card	3	Register/delete a registration card, confirm the registration address, and perform leaving operation.	○	○	○ (*1)
User card	4	Register/delete a user card, and confirm the registration address.	○ (*2)	○ (*2)	○ (*1) (*2)
Master Card	5	Register/delete a master card, and confirm the registration address. * New registration is allowed only if no other cards or PINs are registered.	○ (*3)	○ (*3)	○ (*3)
Construction PIN	6	Register, change, delete, and confirm a construction PIN.	○	×	×
Vacancy PIN	7	Register, change, delete, and confirm a vacancy PIN.	○	○	×
User PIN	8	Register, change, delete, and confirm a user PIN.	○ (*4)	○ (*4)	○ (*4)
Administrator PIN	9	Registers change, delete, and confirm an administrator PIN.	×	×	○ (*4)
Checking the number of registered cards/PINs	0	Checks the number of registered cards/PINs	○	○	○

*1 Selectable only if a registration card is registered.

*2 Selectable only if a master card is registered.

*3 Selectable only if a master card is registered, or if none of the other cards are registered.

*4 When the special setting in occupancy is set to ON, all the operations are disabled.

Error display

If correct operation is not performed at the time of registration/deletion, errors are displayed.

■ Examples of operations that cause errors

- Performing registration/deletion operation in the locked state.
- Trying to register an already registered card.
- The PIN entered in the 2nd trial does not match that entered in the 1st trial.
- Trying to register a PIN of less than 4 digits.

■ Error display

Unlock LED (red)
flashes at high
speed (3 times)



Pi-pi-pi-pi!

Setting operations in construction period

Register construction cards or construction PINs.

- * This setting operation is possible only if no vacancy card, registration card, user card, vacancy PIN, or user PIN is registered

Registration of construction card

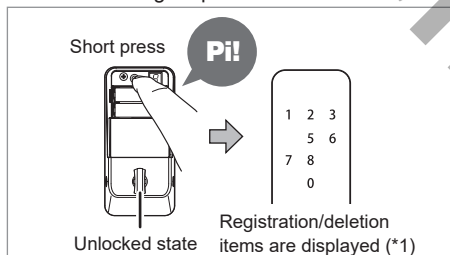
- Operations for card registration should be performed in the unlocked state. The operations are disabled in the locked state.
- Up to 10 construction cards can be registered.
 - * If the authentication mode is set to "AND authentication", following the card registration, register a PIN associated with the card. For information on registration procedure, refer to "Registering cards and PINs" (Page 83).

❶ Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

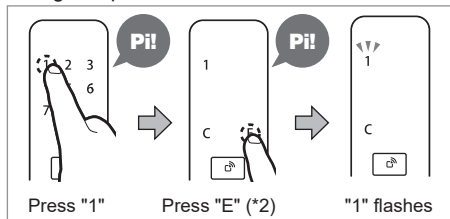
❷ Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



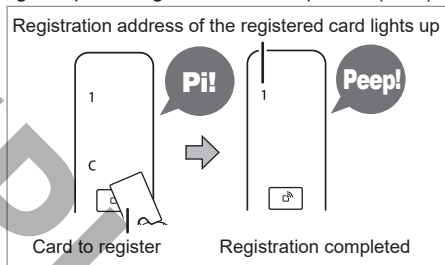
❸ Press "1" → "E" on the PIN pad.

"C" lights up, and "1" flashes.



❹ Hold the card to register over the reader.

When the device makes a sound "Peep!" and the registration address of the registered card lights up, the registration is completed. (1-10)



❺ Registration is completed.

To continue registration, hold another card to register over the reader within 10 seconds. To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

*1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

*2 To reselect a registration/deletion item, press "C" short to display the item numbers again.

Individual deletion and entire deletion of construction cards

This is a function to disable locking/unlocking operations in the cases where a construction card is lost, etc.

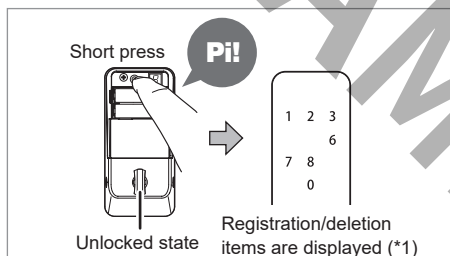
- Operations for card deletion should be performed in the unlocked state. The operations are disabled in the locked state.
- Take a note of the registration address of each card at the time the card is registered or the card's registration address is confirmed.

❶ Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

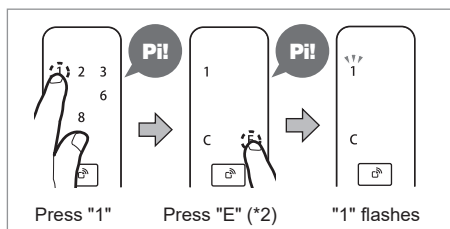
❷ Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



❸ Press "1" → "E" on the PIN pad.

"C" lights up, and "1" flashes.



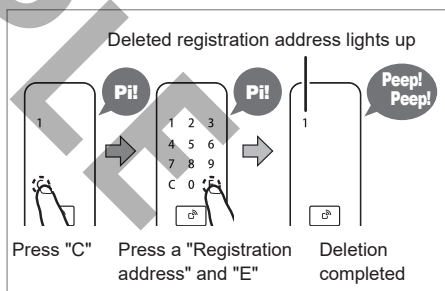
❹ On the PIN pad, press "C" → "Registration address" of the card to delete → "E".

When the device makes a sound "Peep! peep!" and the registration address of the deleted card lights up, the deletion is completed.

To continue deletion, press the registration address of another card to delete → "E" within 10 seconds.

* If the registration address has 2 digits, they light up in the order of tens place → ones place.

* For entire deletion, press "C" → "999" → "E". The device makes a sound "Peep! peep!" and the numbers "0-9" flash.



❺ Deletion is completed.

To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. In the case of entire deletion, the device goes back to the sleep state. Attach the battery cover after the procedure is finished.

*1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

*2 To reselect a registration/deletion item, press "C" short to display the item numbers again.

Registration and change of construction PIN

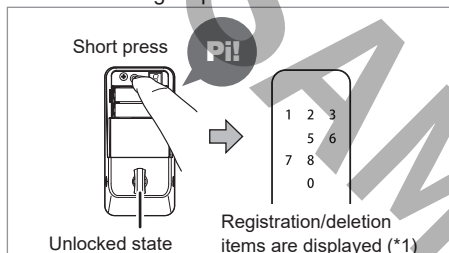
- Operations for PIN registration should be performed in the unlocked state. The operations are disabled in the locked state.
- There are 3 types of construction PIN that can be registered.
- PINs of 4-12 digits can be registered.
- When easy locking function is set to ON, simply pressing the Start button locks the door after a PIN is registered. (The easy locking function is set to ON at factory default.)

① Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

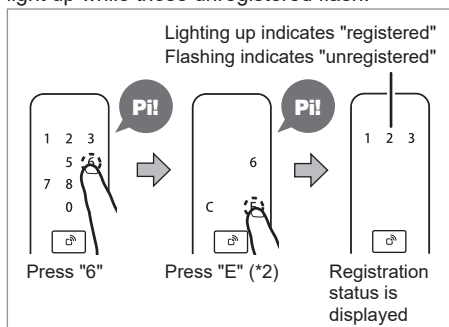
② Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



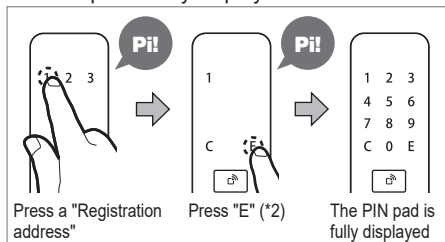
③ Press "6" → "E" on the PIN pad.

Registration addresses (1-3) of the PIN are displayed. Addresses with a registered PIN light up while those unregistered flash.



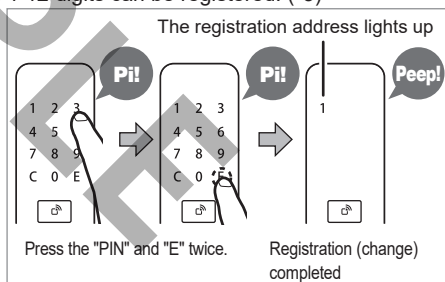
④ On the PIN pad, press "Registration address" of the PIN to register (change) → "E".

The PIN pad is fully displayed.



⑤ On the PIN pad, press "PIN" → "E" → "PIN" → "E".

When the device makes a sound "Peep!" and the registration address lights up, the registration (change) is completed. PINs of 4-12 digits can be registered. (*3)



⑥ Registration (change) is completed.

After the registration (change) is completed, the device goes back to the display of registration address of step 3. To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

*1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

*2 To reselect a registration/deletion item and a registration address, press "C" short to display the item numbers and registration addresses again.

*3 If you try to register a new PIN when a PIN is already registered, the new PIN becomes valid, and the old PIN becomes invalid.

Deletion of construction PIN

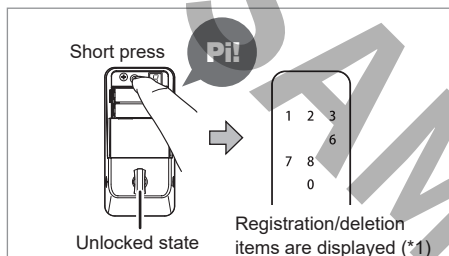
- Operations for PIN deletion should be performed in the unlocked state. The operations are disabled in the locked state.
- Take a note of the registration address of each PIN at the time the PIN is registered.

❶ Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

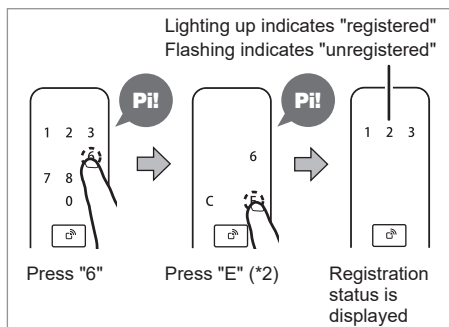
❷ Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



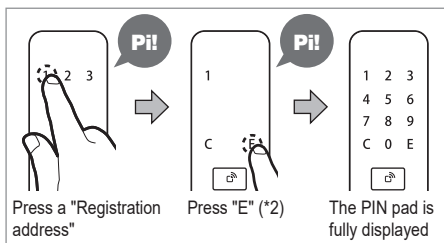
❸ Press "6" → "E" on the PIN pad.

Registration addresses (1-3) of the PIN are displayed. Addresses with a registered PIN light up while those unregistered flash.



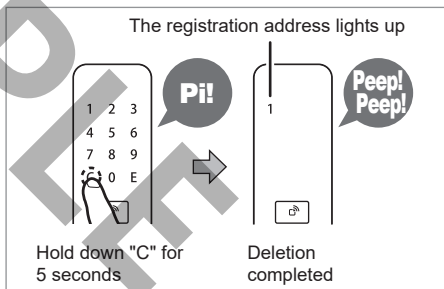
❹ On the PIN pad, press "Registration address" of the PIN to delete → "E".

The PIN pad is fully displayed.



❺ Hold down "C" for 5 seconds.

When the device makes a sound "Peep! peep!" and the registration address lights up, the deletion is completed.



❻ Deletion is completed.

After the deletion is completed, the PIN pad goes back to the display of step 4. To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

*1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

*2 To reselect a registration/deletion item and a registration address, press "C" short to display the item numbers and registration addresses again.

Confirmation of construction PIN

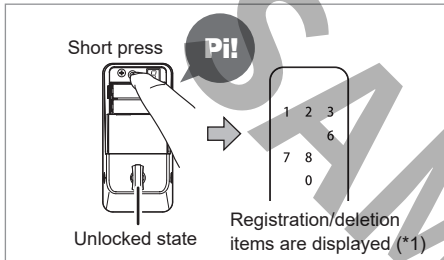
- Operations for PIN confirmation should be performed in the unlocked state. The operations are disabled in the locked state.
- Take a note of the registration address of each PIN at the time the PIN is registered.

① Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

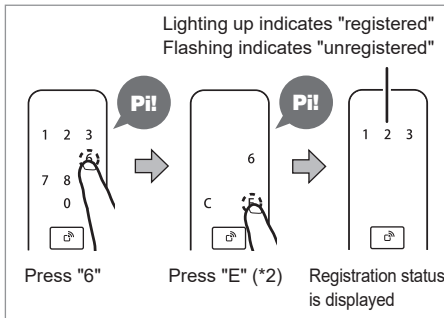
② Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



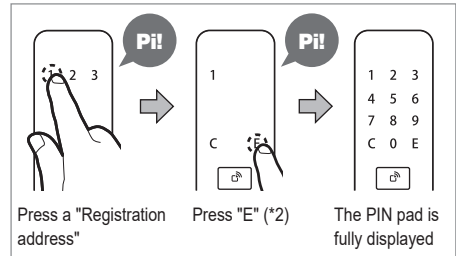
③ Press "6" → "E" on the PIN pad.

Registration addresses (1-3) of the PIN are displayed. Addresses with a registered PIN light up while those unregistered flash.



④ On the PIN pad, press "Registration address" of the PIN to confirm → "E".

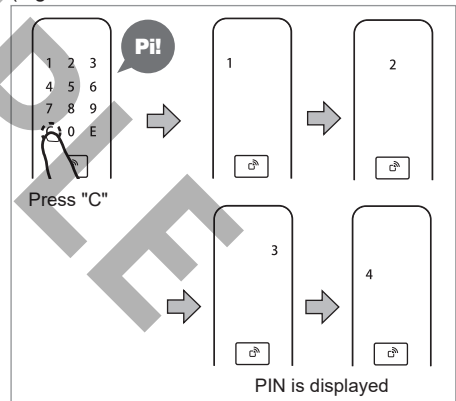
The PIN pad is fully displayed.



⑤ Press "C".

The registered PIN is displayed in the order it was entered.

(e.g.: In the case of 1234, "1" → "2" → "3" → "4".



⑥ Confirmation is completed.

After the PIN is displayed, the PIN pad goes back to the display of step 4. To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

*1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

*2 To reselect a registration/deletion item and a registration address, press "C" short to display the item numbers and registration addresses again.

Setting operations at the time of delivery

Register a master card upon necessity. When using a master card, locking/unlocking is possible in any state including under construction, vacancy, or occupancy. It is to be used for emergencies.

New registration of master cards

New registration of a master card is allowed only if no other cards or PINs are registered. If other cards/PINs such as construction cards/PINs are registered, delete them all, and perform registration operation of a master card.

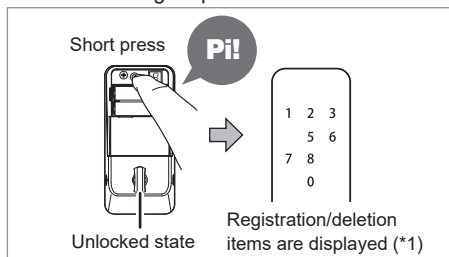
- Operations for card registration should be performed in the unlocked state. The operations are disabled in the locked state.
 - Up to 10 master cards can be registered.
 - To delete a master card, a registered master card is required. In case of loss or damage, it is recommended to register 2 or more master cards.
- * If the authentication mode is set to "AND authentication", following the card registration, register a PIN associated with the card. For information on registration procedure, refer to "Registering cards and PINs" (Page 83).

① Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

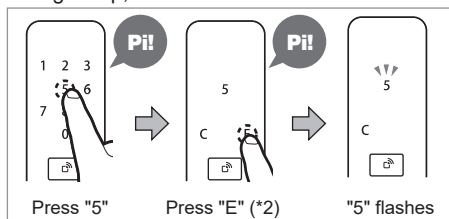
② Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



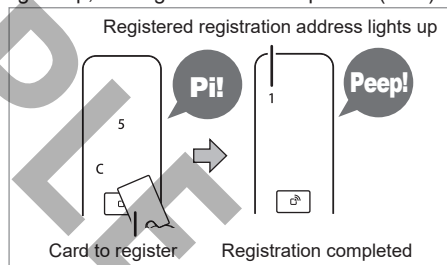
③ Press "5" → "E" on the PIN pad.

"C" lights up, and "5" flashes.



④ Hold the card to register over the reader.

When the device makes a sound "Peep!" and the registration address of the registered card lights up, the registration is completed. (1-10)



⑤ Registration is completed.

To continue registration, hold another card to register over the reader within 10 seconds. To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

*1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

*2 To reselect a registration/deletion item, press "C" short to display the item numbers again.

Additional registration of master cards

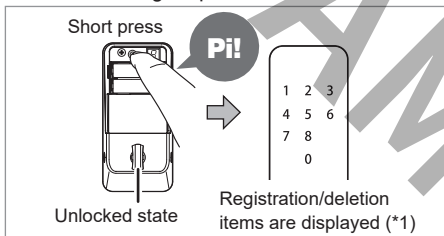
- To register additional master cards, a registered master card is required.
- Operations for card registration should be performed in the unlocked state. The operations are disabled in the locked state.
- Up to 10 master cards can be registered.
 - * If the authentication mode is set to "AND authentication", following the card registration, register a PIN associated with the card. For information on registration procedure, refer to "Registering cards and PINs" (Page 83).

① Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

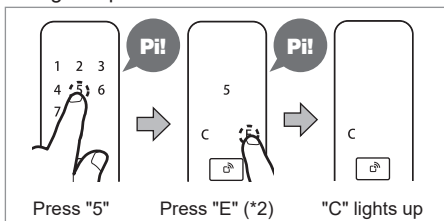
② Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



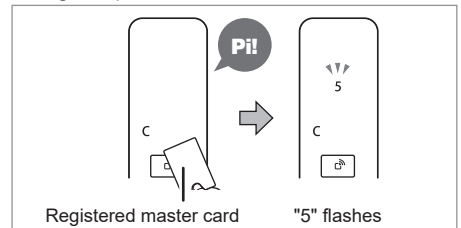
③ Press "5" → "E" on the PIN pad.

"C" lights up.



④ Hold a registered master card over the reader.

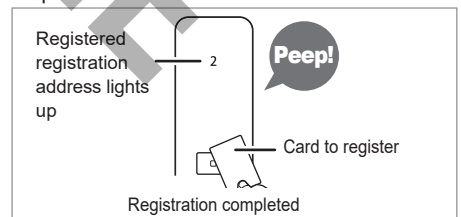
"C" lights up, and "5" flashes.



⑤ Hold the card to register over the reader.

When the device makes a sound "Peep!" and the number for registration address of the card lights up, the registration is completed. (1-10) To continue registration, hold another card to register over the reader within 10 seconds.

* If the registration address has 2 digits, they light up in the order of tens place → ones place.



⑥ Registration is completed.

To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

*1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

*2 To reselect a registration/deletion item, press "C" short to display the item numbers again.

Individual deletion and entire deletion of master cards

This is a function to disable locking/unlocking operations in the cases where a master card is lost, etc.

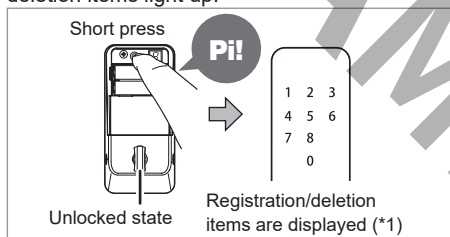
- To delete master cards, a registered master card is required.
- If all the master cards are lost, operation to delete master cards is disabled. If this happens, change the authentication mode in the system setting, and entirely delete the registration information including cards and PINs. (The authentication mode can not be changed while the room is occupied. Perform leaving operation, then change the authentication mode.)
- If only one master card is registered, individual deletion is not possible (results in error). Entire deletion is possible.
- If the master cards are entirely deleted, registered information of registration cards, user cards, user PINs, and administrator PIN are also deleted at the same time.
- Operations for card deletion should be performed in the unlocked state. The operations are disabled in the locked state.
- Take a note of the registration address of each card at the time the card is registered or the card's registration address is confirmed.

① Remove the battery cover on the inside in advance.

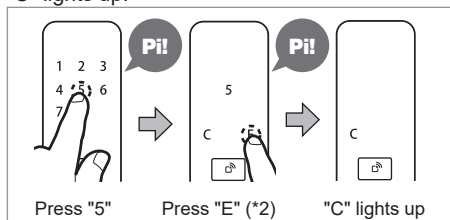
For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

② Press the Set button short in the unlocked state.

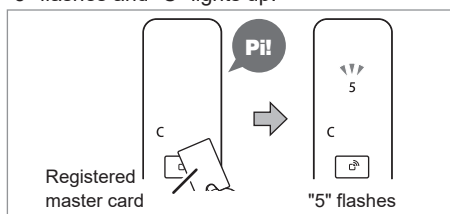
The numbers for the selectable registration/deletion items light up.



③ Press "5" → "E" on the PIN pad. "C" lights up.



④ Hold a registered master card over the reader. "5" flashes and "C" lights up.

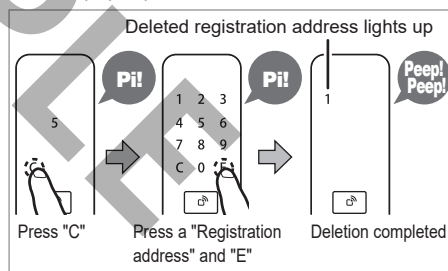


⑤ On the PIN pad, press "C" → "Registration address" of the card to delete → "E".

When the device makes a sound "Peep! peep!" and the registration address of the deleted card lights up, the deletion is completed. To continue deletion, press the registration address of another card to delete → "E" within 10 seconds.

* If the registration address has 2 digits, they light up in the order of tens place → ones place.

* For entire deletion, press "C" → "999" → "E" → "999" → "E". The device makes a sound "Peep! peep!" and the numbers "0-9" flash.



⑥ Deletion is completed.

To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. In the case of entire deletion, the device goes back to the sleep state. Attach the battery cover after the procedure is finished.

*1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

*2 To reselect a registration/deletion item, press "C" short to display the item numbers again.

Setting operations at the time of vacancy

Register vacancy cards or vacancy PINs. When a vacancy card or a vacancy PIN is registered, the room becomes vacant, and the construction cards/PINs are disabled automatically.

* This setting operation is possible only if no registration card, user card, or user PIN is registered.

Registration of vacancy card

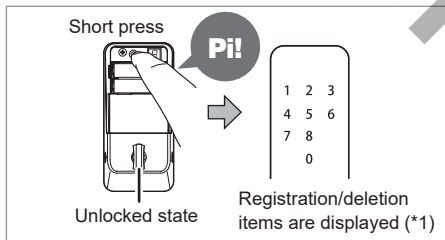
- Operations for card registration should be performed in the unlocked state. The operations are disabled in the locked state.
- Up to 20 vacancy cards can be registered.
 - * If the authentication mode is set to "AND authentication", following the card registration, register a PIN associated with the card. For information on registration procedure, refer to "Registering cards and PINs" (Page 83).

① Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

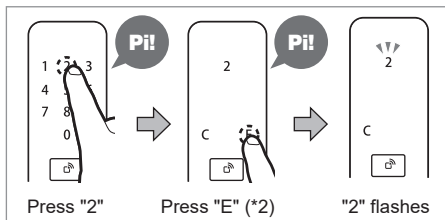
② Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



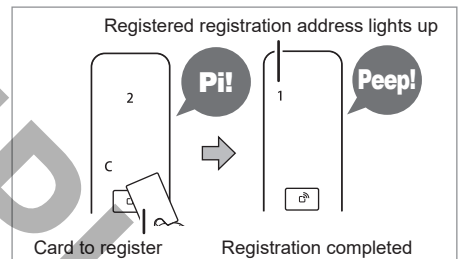
③ Press "2" → "E" on the PIN pad.

"C" lights up, and "2" flashes.



④ Hold the card to register over the reader.

When the device makes a sound "Peep!" and the registration address of the registered card lights up, the registration is completed.



⑤ Registration is completed.

To continue registration, hold another card to register over the reader within 10 seconds. To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

*1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

*2 To reselect a registration/deletion item, press "C" short to display the item numbers again.

Individual deletion and entire deletion of vacancy cards

This is a function to disable locking/unlocking operations in the cases where a vacancy card is lost, etc.

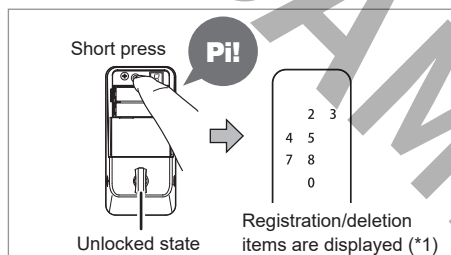
- Operations for card deletion should be performed in the unlocked state. The operations are disabled in the locked state.
- Take a note of the registration address of each card at the time the card is registered or the card's registration address is confirmed.

❶ Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

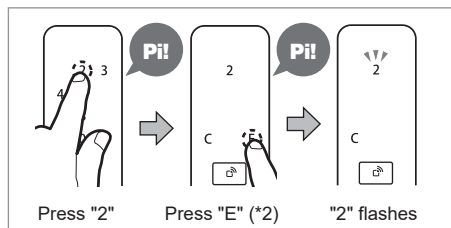
❷ Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



❸ Press "2" → "E" on the PIN pad.

"C" lights up, and "2" flashes.



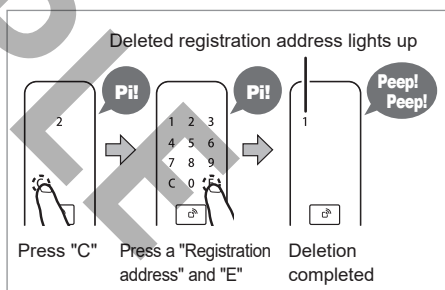
❹ On the PIN pad, press "C" → "Registration address" of the card to delete → "E".

When the device makes a sound "Peep! peep!" and the registration address of the deleted card lights up, the deletion is completed.

To continue deletion, press the registration address of another card to delete → "E" within 10 seconds.

* If the registration address has 2 digits, they light up in the order of tens place → ones place.

* For entire deletion, press "C" → "999" → "E". The device makes a sound "Peep! peep!" and the numbers "0-9" flash.



❺ Deletion is completed.

To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. In the case of entire deletion, the device goes back to the sleep state. Attach the battery cover after the procedure is finished.

*1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

*2 To reselect a registration/deletion item, press "C" short to display the item numbers again.

Registration and change of vacancy PIN

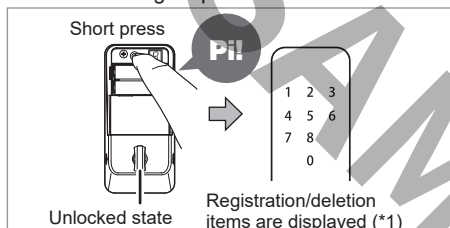
- Operations for PIN registration should be performed in the unlocked state. The operations are disabled in the locked state.
- There are 3 types of vacancy PIN that can be registered.
- PINs of 4-12 digits can be registered.
- When easy locking function is set to ON, simply pressing the Start button locks the door after a PIN is registered. (The easy locking function is set to ON at factory default.)

① Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

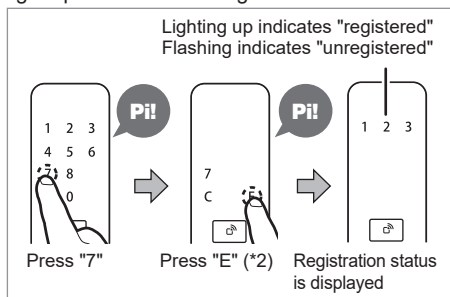
② Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



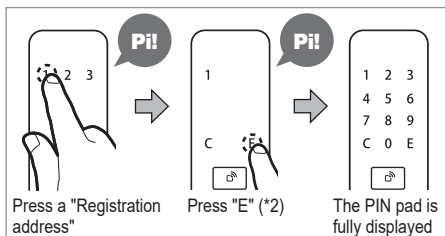
③ Press "7" → "E" on the PIN pad.

Registration addresses (1-3) of the PIN are displayed. Addresses with a registered PIN light up while those unregistered flash.



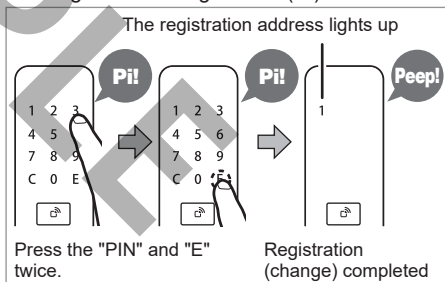
④ On the PIN pad, press "Registration address" of the PIN to register (change) → "E".

The PIN pad is fully displayed.



⑤ On the PIN pad, press "PIN" → "E" → "PIN" → "E".

When the device makes a sound "Peep!" and the registration address lights up, the registration (change) is completed. PINs of 4-12 digits can be registered. (*3)



⑥ Registration (change) is completed.

After the registration (change) is completed, the device goes back to the display of registration address of step 3. To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

*1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

*2 To reselect a registration/deletion item and a registration address, press "C" short to display the item numbers and registration addresses again.

*3 If you try to register a new PIN when a PIN is already registered, the new PIN becomes valid, and the old PIN becomes invalid.

Deletion of vacancy PIN

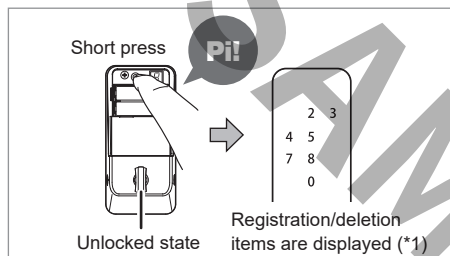
- Operations for PIN deletion should be performed in the unlocked state. The operations are disabled in the locked state.
- Take a note of the registration address of each PIN at the time the PIN is registered.

❶ Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

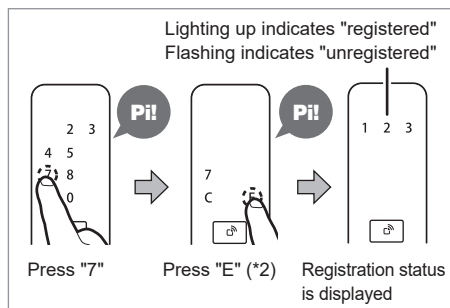
❷ Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



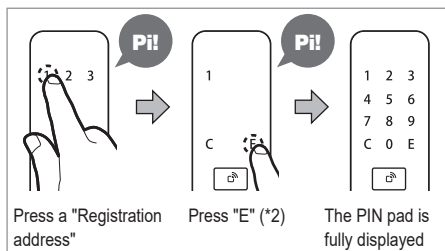
❸ Press "7" → "E" on the PIN pad.

Registration addresses (1-3) of the PIN are displayed. Addresses with a registered PIN light up while those unregistered flash.



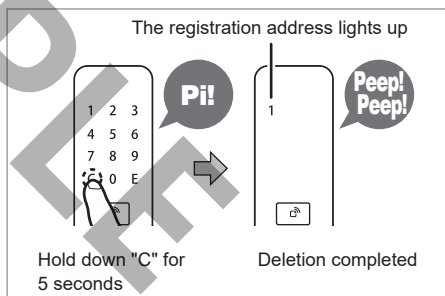
❹ On the PIN pad, press "Registration address" of the PIN to delete → "E".

The PIN pad is fully displayed.



❺ Hold down "C" for 5 seconds.

When the device makes a sound "Peep! peep!" and the registration address lights up, the deletion is completed.



❻ Deletion is completed.

After the deletion is completed, the PIN pad goes back to the display of step 4. To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

*1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

*2 To reselect a registration/deletion item and a registration address, press "C" short to display the item numbers and registration addresses again.

Confirmation of vacancy PIN

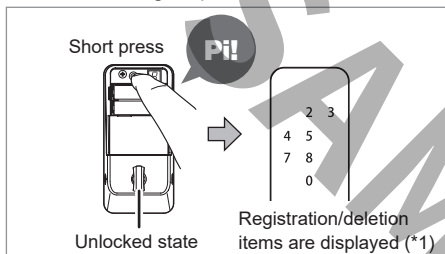
- Operations for PIN confirmation should be performed in the unlocked state. The operations are disabled in the locked state.
- Take a note of the registration address of each PIN at the time the PIN is registered.

❶ Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

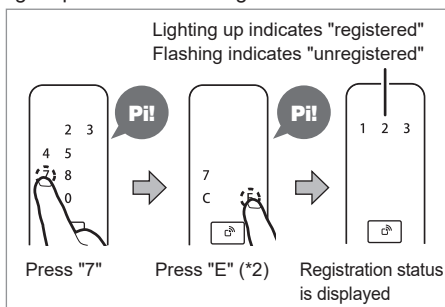
❷ Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



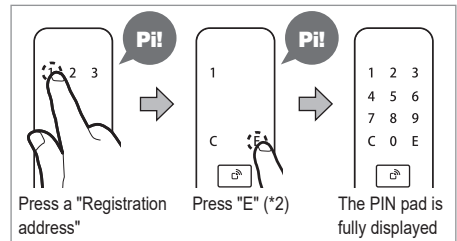
❸ Press "7" → "E" on the PIN pad.

Registration addresses (1-3) of the PIN are displayed. Addresses with a registered PIN light up while those unregistered flash.



❹ On the PIN pad, press "Registration address" of the PIN to confirm → "E".

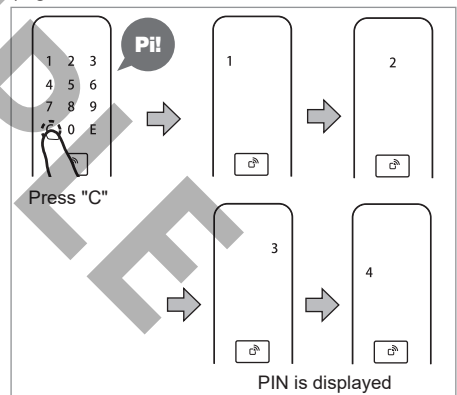
The PIN pad is fully displayed.



❺ Press "C".

The registered PIN is displayed in the order it was entered.

(e.g.: In the case of 1234, "1" → "2" → "3" → "4".



❻ Confirmation is completed.

After the PIN is displayed, the PIN pad goes back to the display of step 4. To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

*1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

*2 To reselect a registration/deletion item and a registration address, press "C" short to display the item numbers and registration addresses again.

Setting operations at the time of occupancy

Register registration card, user card, or user PIN. When either of them is registered, the room becomes occupied, and the vacancy cards/PINs are disabled automatically.

New registration of registration cards

- Registration cards should be registered before registering user cards (which can be registered using a master card) and user PINs. If user cards and user PINs are registered first, new registration of registration cards is not possible.
- Operations for card registration should be performed in the unlocked state. The operations are disabled in the locked state.
- Up to 5 registration cards can be registered.
- To delete registration cards, a registered registration card is required. In case of loss or damage, it is recommended to register 2 or more registration cards.

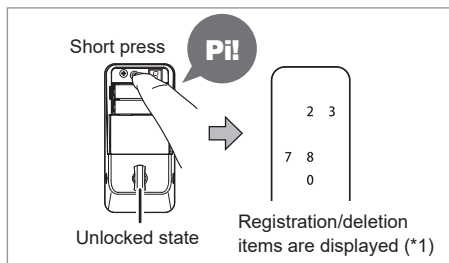
* If the authentication mode is set to "AND authentication", following the card registration, register a PIN associated with the card. For information on registration procedure, refer to "Registering cards and PINs" (Page 83).

❶ Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

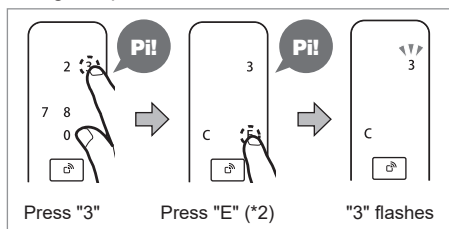
❷ Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



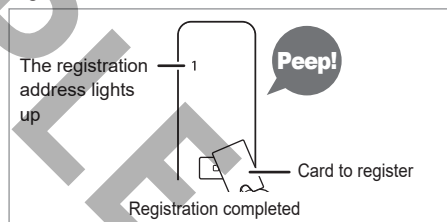
❸ Press "3" → "E" on the PIN pad.

"C" lights up, and "3" flashes.



❹ Hold the card to register over the reader.

When the device makes a sound "Peep!" and the number for registration address of the card lights up, the registration is completed. (1-5)
To continue registration, hold another card to register over the reader within 10 seconds.



❺ Registration is completed.

To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

*1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

*2 To reselect a registration/deletion item, press "C" short to display the item numbers again.

Additional registration of registration cards

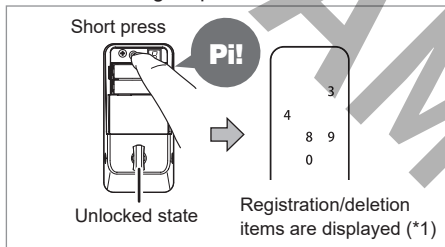
- To register additional registration cards, a registered registration card is required.
- Operations for card registration should be performed in the unlocked state. The operations are disabled in the locked state.
- Up to 5 registration cards can be registered.
 - * If the authentication mode is set to "AND authentication", following the card registration, register a PIN associated with the card. For information on registration procedure, refer to "Registering cards and PINs" (Page 83).

❶ Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

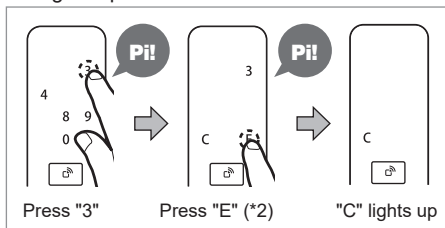
❷ Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



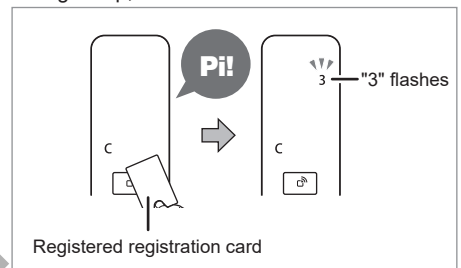
❸ Press "3" → "E" on the PIN pad.

"C" lights up.



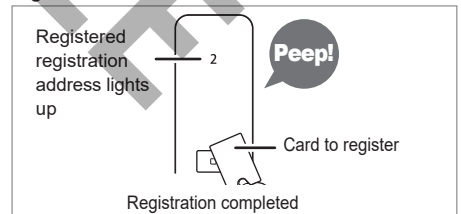
❹ Hold a registered registration card over the reader.

"C" lights up, and "3" flashes.



❺ Hold the card to register over the reader.

When the device makes a sound "Peep!" and the number for registration address of the card lights up, the registration is completed. (1-5)
To continue registration, hold another card to register over the reader within 10 seconds.



❻ Registration is completed.

To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

*1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

*2 To reselect a registration/deletion item, press "C" short to display the item numbers again.

Individual deletion and entire deletion of registration cards

This is a function to disable locking/unlocking operations in the cases where a registration card is lost, etc.

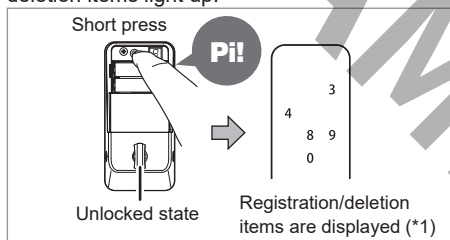
- To delete registration cards, a registered registration card is required.
- If all the registration cards are lost, operations to delete registration cards are disabled. In that case, perform leaving operation and entirely delete registration cards, user cards, user PINs, and administrator PIN.
- If only one registration card is registered, individual deletion is not possible (results in error). Entire deletion is possible.
- If the registration cards are entirely deleted, user cards, user PINs, and administrator PIN are also deleted at the same time.
- Operations for card deletion should be performed in the unlocked state. The operations are disabled in the locked state.
- Take a note of the registration address of each card at the time the card is registered or the card's registration address is confirmed.

① Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

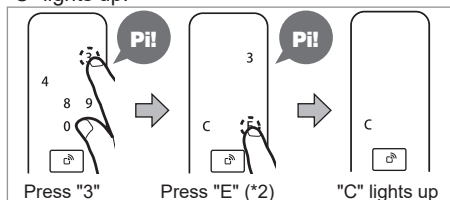
② Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



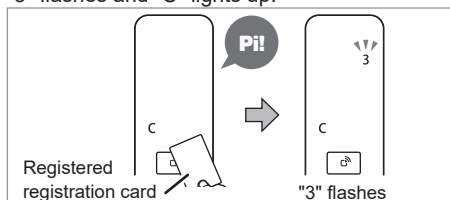
③ Press "3" → "E" on the PIN pad.

"C" lights up.



④ Hold a registered registration card over the reader.

"3" flashes and "C" lights up.

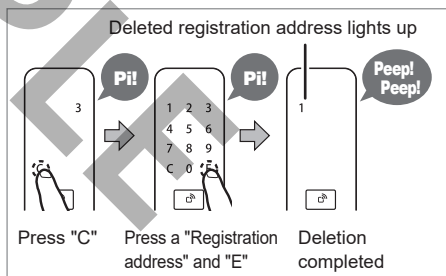


⑤ On the PIN pad, press "C" → "Registration address" of the card to delete → "E".

When the device makes a sound "Peep! peep!" and the registration address of the deleted card lights up, the deletion is completed. To continue deletion, press the registration address of another card to delete → "E" within 10 seconds.

* If the registration address has 2 digits, they light up in the order of tens place → ones place.

* For entire deletion, press "C" → "999" → "E" → "999" → "E". The device makes a sound "Peep! peep!" and the numbers "0-9" flash.



⑥ Deletion is completed.

To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. In the case of entire deletion, the device goes back to the sleep state. Attach the battery cover after the procedure is finished.

*1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

*2 To reselect a registration/deletion item, press "C" short to display the item numbers again.

New/Additional registration of user card

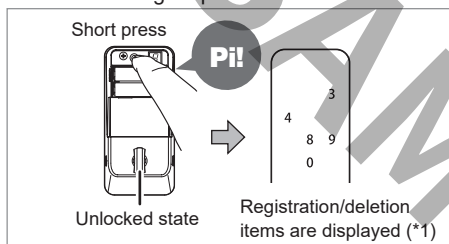
- To register user cards, a registered registration card or a master card is required.
- Please note that if a user card is registered using a master card before registering new registration cards, new registration of registration cards is not possible.
- Operations for card registration should be performed in the unlocked state. The operations are disabled in the locked state.
- Up to 100 user cards can be registered.

① Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

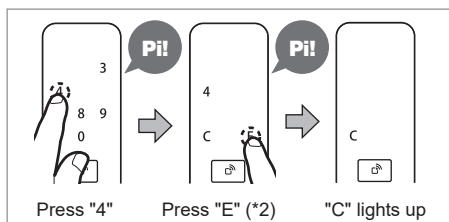
② Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



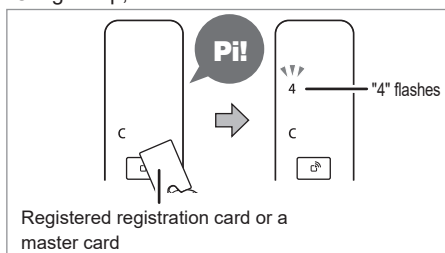
③ Press "4" → "E" on the PIN pad.

"C" lights up.



④ Hold a registered registration card or a registered master card over the reader.

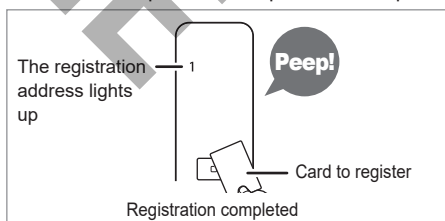
"C" lights up, and "4" flashes.



⑤ Hold the card to register over the reader.

When the device makes a sound "Peep!" and the number for registration address of the card lights up, the registration is completed. (1-100) To continue registration, hold another card to register over the reader within 10 seconds.

- * If the registration address has 2 digits, they light up in the order of tens place → ones place. If it has 3 digits, they light up in the order of hundreds place → tens place → ones place.



⑥ Registration is completed.

To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

*1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

*2 To reselect a registration/deletion item, press "C" short to display the item numbers again.

Individual deletion and entire deletion of user cards

This is a function to disable locking/unlocking operations in the cases where a user card is lost, etc.

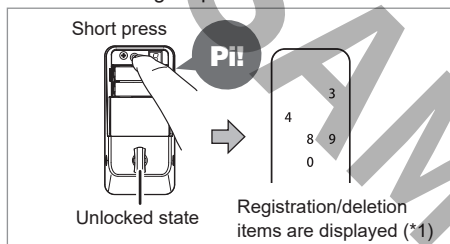
- To delete user cards, a registered registration card or a master card is required.
- Operations for card deletion should be performed in the unlocked state. The operations are disabled in the locked state.
- Take a note of the registration address of each card at the time the card is registered or the card's registration address is confirmed.

❶ Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

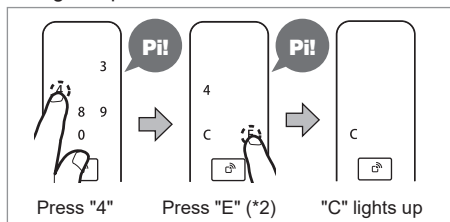
❷ Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



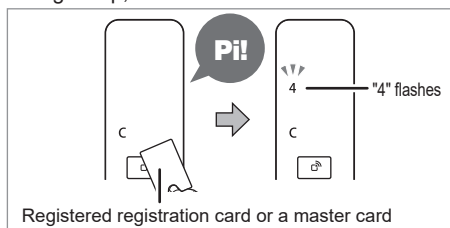
❸ Press "4" → "E" on the PIN pad.

"C" lights up.



❹ Hold a registered registration card or a registered master card over the reader.

"C" lights up, and "4" flashes.



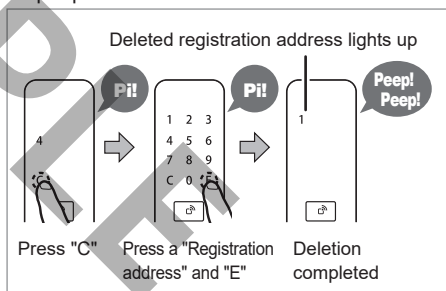
❺ On the PIN pad, press "C" → "Registration address" of the card to delete → "E".

When the device makes a sound "Peep! peep!" and the registration address of the deleted card lights up, the deletion is completed.

To continue deletion, press the registration address of another card to delete → "E" within 10 seconds.

* If the registration address has 2 digits, they light up in the order of tens place → ones place. If it has 3 digits, they light up in the order of hundreds place → tens place → ones place.

* For entire deletion, press "C" → "999" → "E". The device makes a sound "Peep! peep!" and the numbers "0-9" flash.



❻ Deletion is completed.

To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. In the case of entire deletion, the device goes back to the sleep state. Attach the battery cover after the procedure is finished.

*1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

*2 To reselect a registration/deletion item, press "C" short to display the item numbers again.

New registration of user PINs

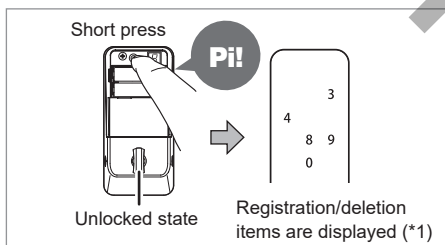
- If the room is already occupied, a registered registration card or a registered master card is required to register user PINs.
- If the room has not become occupied, they can be registered without the above card. In that case, however, new registration of registration card is not possible.
- Operations for PIN registration should be performed in the unlocked state. The operations are disabled in the locked state.
- There are 9 types of user PIN that can be registered.
- PINs of 4-12 digits can be registered.
- When easy locking function is set to ON, simply pressing the Start button locks the door after a PIN is registered. (The easy locking function is set to ON at factory default.)

① Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

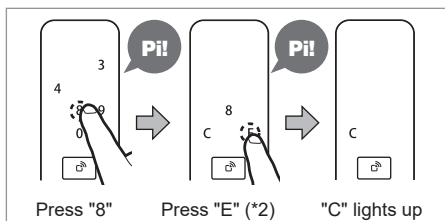
② Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



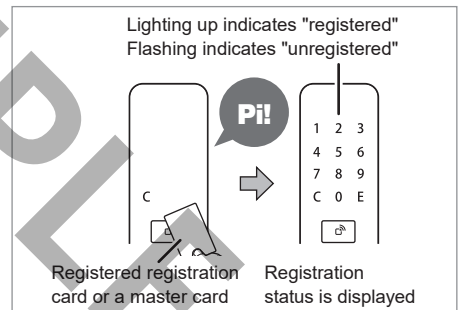
③ Press "8" → "E" on the PIN pad.

"C" lights up.



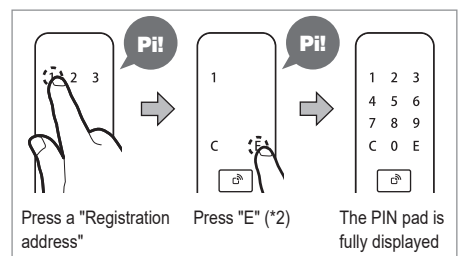
④ Hold a registered registration card or a registered master card over the reader. (*3)

Registration addresses (1-9) of the PIN are displayed. Addresses with a registered PIN light up while those unregistered flash.



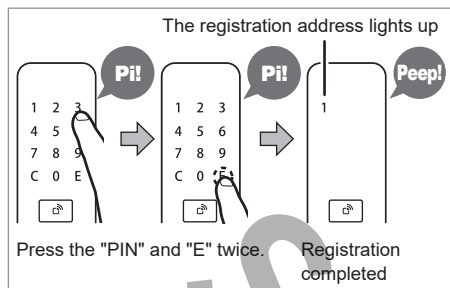
⑤ On the PIN pad, press "Registration address" of the PIN to register → "E".

The PIN pad is fully displayed.



⑥ On the PIN pad, press "PIN" → "E" → "PIN" → "E".

When the device makes a sound "Peep!" and the registration address lights up, the registration is completed. PINs of 4-12 digits can be registered.



⑦ Registration is completed.

After the registration is completed, the device goes back to the display of registration address of step 4. To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

- *1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).
- *2 To reselect a registration/deletion item and a registration address, press "C" short to display the item numbers and registration addresses again.
- *3 If the room is not occupied, the registration addresses are displayed without this operation.

Additional registration and change of user PINs

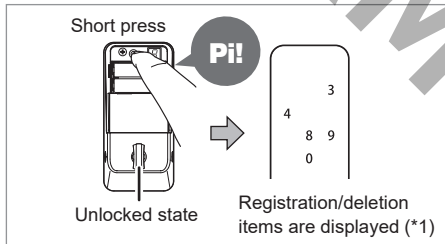
- To additionally register or change user PINs, a registered registration card, a master card, or a user PIN is required.
- Operations for PIN registration or change should be performed in the unlocked state. The operations are disabled in the locked state.
- There are 9 types of user PIN that can be registered.
- PINs of 4-12 digits can be set.
- When easy locking function is set to ON, simply pressing the Start button locks the door after a PIN is registered. (The easy locking function is set to ON at factory default.)

① Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

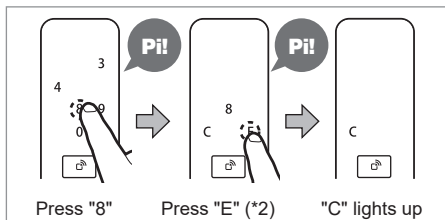
② Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



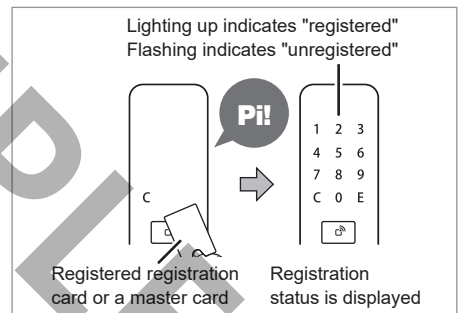
③ Press "8" → "E" on the PIN pad.

"C" lights up.

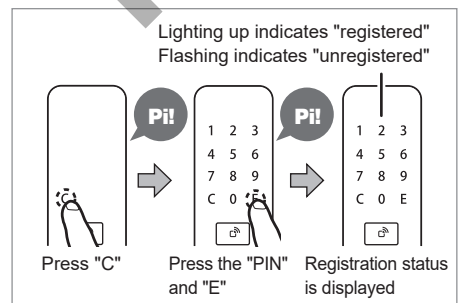


④ Hold a registered registration card or a registered master card over the reader. Or on the PIN pad, press "C" → registered "PIN" → "E".

Registration addresses (1-9) of the PIN are displayed. Addresses with a registered PIN light up while those unregistered flash.

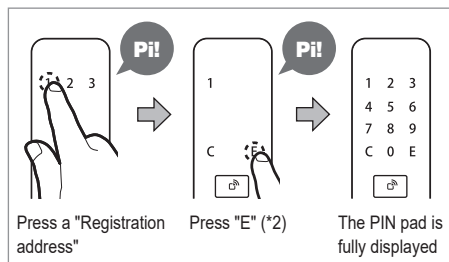


Or



5 On the PIN pad, press "Registration address" of the PIN to register (change) → "E".

The PIN pad is fully displayed.



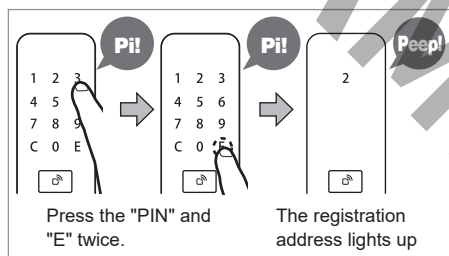
*1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

*2 To reselect a registration/deletion item and a registration address, press "C" short to display the item numbers and registration addresses again.

*3 If you try to register a new PIN when a PIN is already registered, the new PIN becomes valid, and the old PIN becomes invalid.

6 On the PIN pad, press "PIN" → "E" → "PIN" → "E".

When the device makes a sound "Peep!" and the registration address lights up, the registration (change) is completed. PINs of 4-12 digits can be registered. (*3)



7 Registration (change) is completed.

After the registration (change) is completed, the device goes back to the display of registration address of step 4. To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

Deletion of user PIN

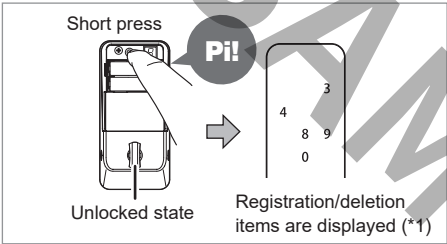
- To delete a user PIN, either a registered registration card, a master card, or a user PIN is required.
- Operations for PIN deletion should be performed in the unlocked state. The operations are disabled in the locked state.
- Take a note of the registration address of each PIN at the time the PIN is registered.

❶ Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

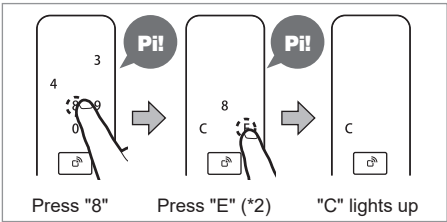
❷ Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



❸ Press "8" → "E" on the PIN pad.

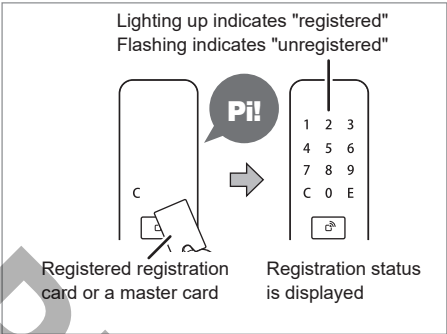
"C" lights up.



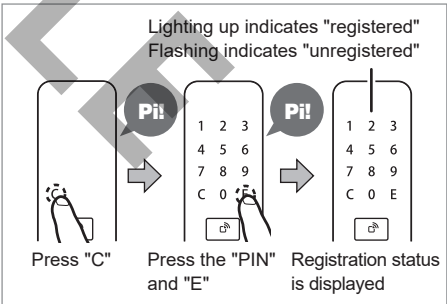
❹ Hold a registered registration card or a registered master card over the reader.

Or press "C" → registered "PIN" → "E".

Registration addresses (1-9) of the PIN are displayed. Addresses with a registered PIN light up while those unregistered flash.

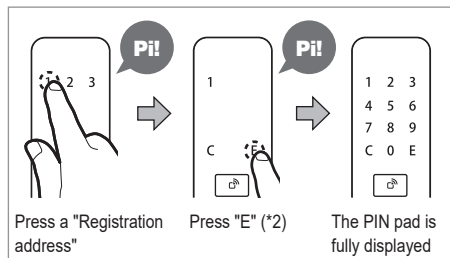


Or



5 On the PIN pad, press "Registration address" of the PIN to delete → "E".

The PIN pad is fully displayed.

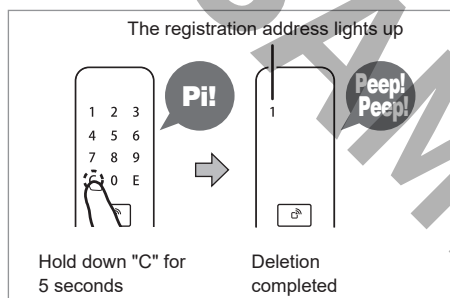


*1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

*2 To reselect a registration/deletion item and a registration address, press "C" short to display the item numbers and registration addresses again.

6 Hold down "C" for 5 seconds.

When the device makes a sound "Peep! peep!" and the registration address lights up, the deletion is completed.



7 Deletion is completed.

After the deletion is completed, the PIN pad goes back to the display of step 5. To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

Confirmation of user PIN

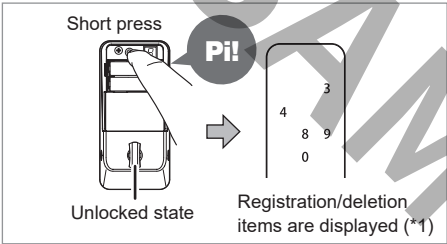
- To confirm a user PIN, either a registered registration card, a master card, or a user PIN is required.
- Operations for PIN confirmation should be performed in the unlocked state. The operations are disabled in the locked state.
- Take a note of the registration address of each PIN at the time the PIN is registered.

1 Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

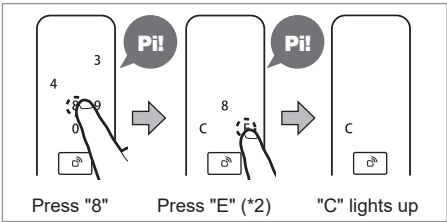
2 Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



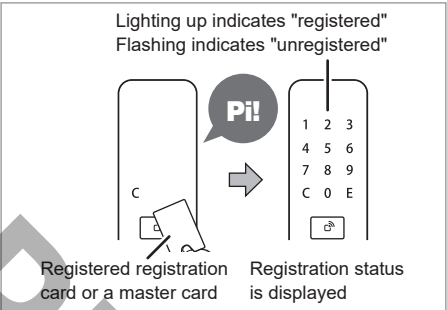
3 Press "8" → "E" on the PIN pad.

"C" lights up.

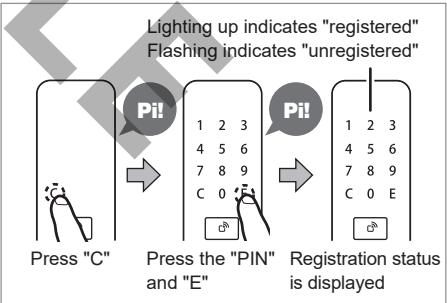


4 Hold a registered registration card or a registered master card over the reader. Or on the PIN pad, press "C" → registered "PIN" → "E".

Registration addresses (1-9) of the PIN are displayed. Addresses with a registered PIN light up while those unregistered flash.

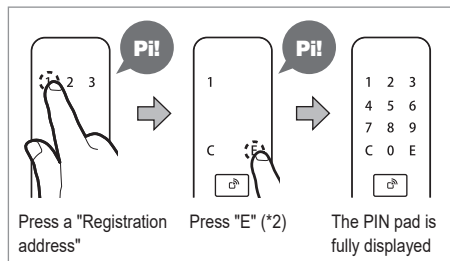


Or



5 On the PIN pad, press "Registration address" of the PIN to confirm → "E".

The PIN pad is fully displayed.



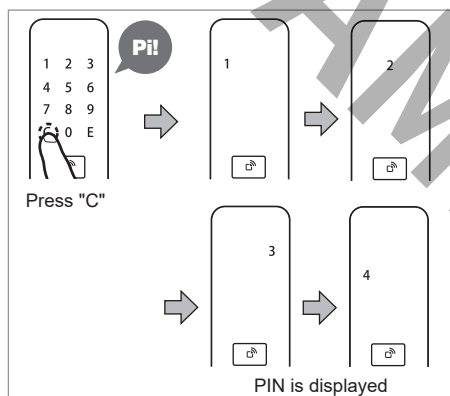
*1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

*2 To reselect a registration/deletion item and a registration address, press "C" short to display the item numbers and registration addresses again.

6 Press "C".

The registered PIN is displayed in the order it was entered.

(e.g.: In the case of 1234, "1" → "2" → "3" → "4".



7 Confirmation is completed.

After the PIN is displayed, the PIN pad goes back to the display of step 5. To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

New registration of administrator PIN

- Operations for administrator PIN registration should be performed in the unlocked state. The operations are disabled in the locked state.
- There is 1 type of administrator PIN that can be registered.
- Administrator PINs of 4-12 digits can be registered.

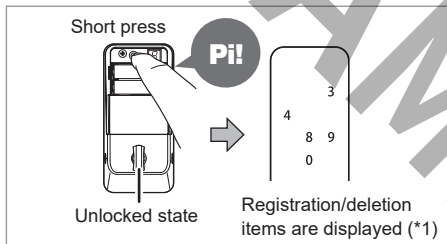
* Administrator PIN is a PIN for administrator used to set and cancel "Shutout PIN". You can not lock/unlock doors by an administrator PIN.

❶ Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

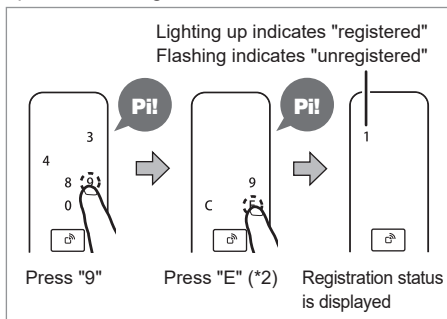
❷ Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



❸ Press "9" → "E" on the PIN pad.

If an administrator PIN is registered, "1" lights up. If it is not registered, "1" flashes.

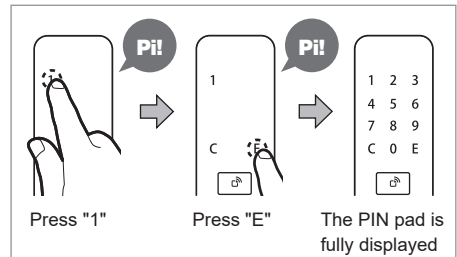


*1 The displayed numbers change according to the registration status of respective cards and administrator PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

*2 To reselect a registration/deletion item, press "C" short to display the item numbers again.

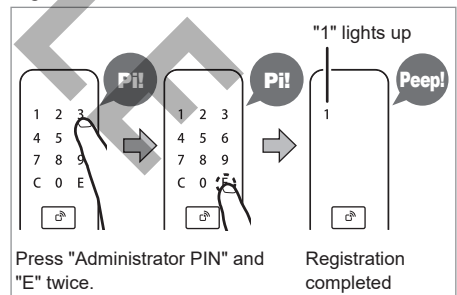
❹ Press "1" → "E" on the PIN pad.

The PIN pad is fully displayed.



❺ On the PIN pad, press "Administrator PIN" → "E" → "Administrator PIN" → "E".

When the device makes a sound "Peep!" and "1" lights up, the registration is completed. Administrator PINs of 4-12 digits can be registered.



❻ Registration is completed.

The device goes back to the sleep state when the registration is completed. Attach the battery cover after the procedure is finished.

Change of administrator PIN

- To change an administrator PIN, a registered administrator PIN is required.
- Operations for changing administrator PINs should be performed in the unlocked state. The operations are disabled in the locked state.
- There is 1 type of administrator PIN that can be registered.
- Administrator PINs of 4-12 digits can be registered.

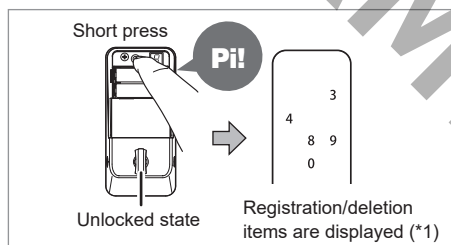
* If you forget an administrator PIN, performing leaving operation (entire deletion of registration cards or master cards) automatically deletes the administrator PIN. After that, perform operations for administrator PIN registration again.

① Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

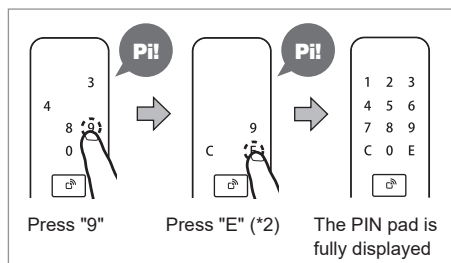
② Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



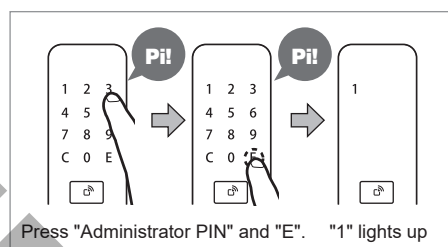
③ Press "9" → "E" on the PIN pad.

The PIN pad is fully displayed.



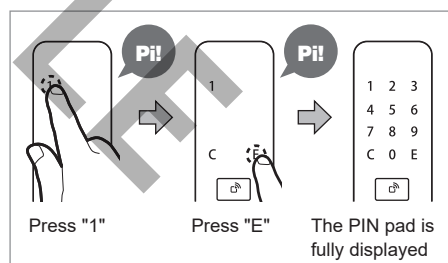
④ On the PIN pad, press a registered "administrator PIN" → "E".

"1" lights up.



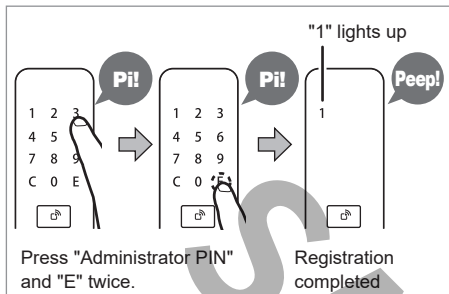
⑤ Press "1" → "E" on the PIN pad.

The PIN pad is fully displayed.



⑥ On the PIN pad, press "Administrator PIN" → "E" → "Administrator PIN" → "E".

When the device makes a sound "Peep!" and "1" lights up, the change is completed. Administrator PINs of 4-12 digits can be registered.



- *1 The displayed numbers change according to the registration status of respective cards and administrator PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).
- *2 To reselect a registration/deletion item, press "C" short to display the item numbers again.

⑦ Change is completed.

The device goes back to the sleep state when the change is completed. Attach the battery cover after the procedure is finished.

Deletion of administrator PIN

- To delete an administrator PIN, a registered administrator PIN is required.
- Operations for administrator PIN deletion should be performed in the unlocked state. The operations are disabled in the locked state.

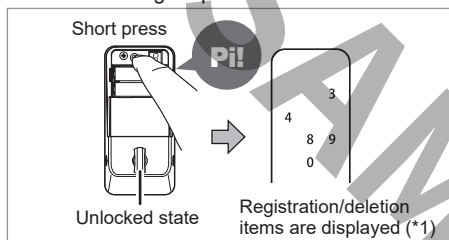
* If you forget an administrator PIN, performing leaving operation (entire deletion of registration cards or master cards) automatically deletes the administrator PIN.

① Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

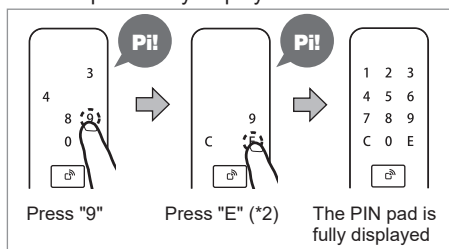
② Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



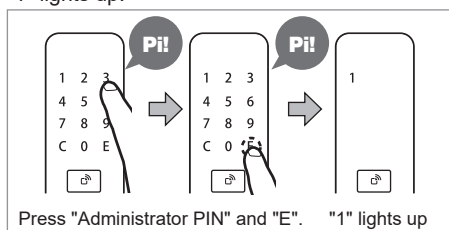
③ Press "9" → "E" on the PIN pad.

The PIN pad is fully displayed.



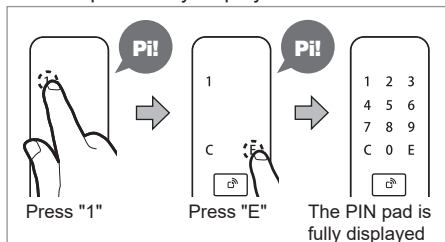
④ On the PIN pad, press a registered "administrator PIN" → "E".

"1" lights up.



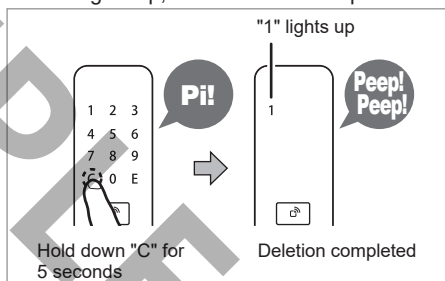
⑤ Press "1" → "E" on the PIN pad.

The PIN pad is fully displayed.



⑥ Hold down "C" for 5 seconds.

When the device makes a sound "Peep! peep!" and "1" lights up, the deletion is completed.



⑦ Deletion is completed.

After the deletion is completed, the PIN pad goes back to the display of step 5. To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

*1 The displayed numbers change according to the registration status of respective cards and administrator PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

*2 To reselect a registration/deletion item, press "C" short to display the item numbers again.

Operations on leaving a room

Delete user information of occupancy. When leaving operation is performed, the registration cards, user cards, user PINs, and administrator PIN are entirely deleted. The registered vacancy cards and vacancy PINs become valid again after the leaving operation.

- * If registration cards are not registered, leaving operation can not be performed. In that case, delete user cards and user PINs individually. If an administrator PIN is registered, delete user cards and user PINs, then perform leaving operation in the following procedures.

Entire deletion of registration cards (leaving operation)

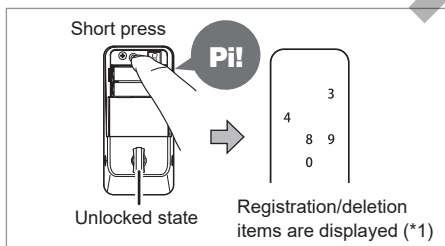
- Leaving operations should be performed in the unlocked state. The operations are disabled in the locked state.

① Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

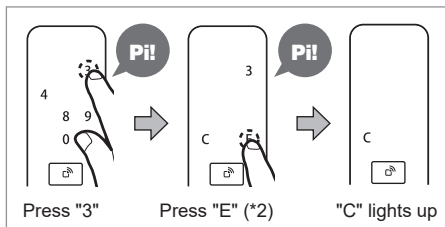
② Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



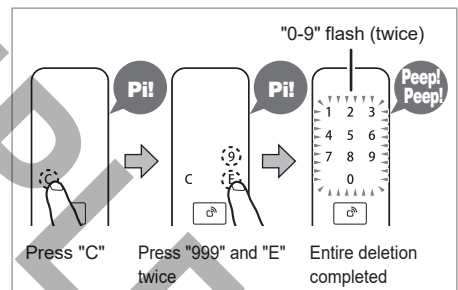
③ Press "3" → "E" on the PIN pad.

"C" lights up.



④ Press "C" → "999" → "E" → "999" → "E" on the PIN pad.

When the device makes a sound "Peep! peep!" and the numbers "0-9" flash twice, the entire deletion is completed.



⑤ Deletion is completed.

The device goes back to the sleep state when the deletion is completed. Attach the battery cover after the procedure is finished.

- *1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).
- *2 To reselect a registration/deletion item, press "C" short to display the item numbers again.

Checking the number of registered cards/PINs

This function is used when requesting the resident to check that the number of registered cards matches the number of delivered cards, or when confirming the registration status of various cards and PINs.

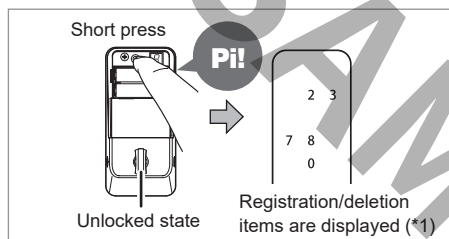
- Operations for checking the number of registrations should be performed in the unlocked state. The operations are disabled in the locked state.

❶ Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

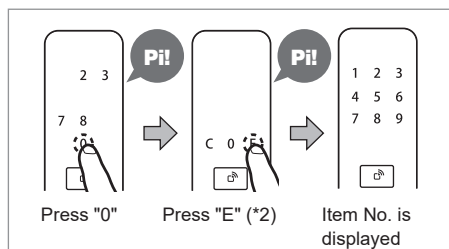
❷ Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



❸ Press "0" → "E" on the PIN pad.

Registered confirmation item numbers light up. Unregistered item numbers are not displayed.

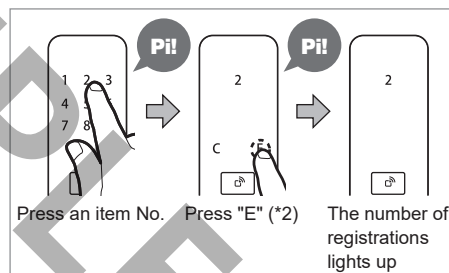


Types of card/PIN	Item No.
Construction card	1
Vacancy card	2
Registration card	3
User card	4
Master Card	5
Construction PIN	6
Vacancy PIN	7
User PIN	8
Administrator PIN	9

❹ On the PIN pad, press the "item number" to check the number of registrations → "E".

Number of registrations of the corresponding cards/PINs is displayed. After it is displayed, the device goes back to the display of item numbers of step 3. To continue checking other number of registrations, press the "item number" to check the number of registrations → "E" within 10 seconds.

- * If the number of registrations is 2 digits, they light up in the order of tens place → ones place.



❺ Confirmation is completed.

To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

- *1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).

- *2 To reselect the registration/deletion items or a confirmation items, press "C" short to display the item numbers again.

Confirmation of the registration address of various cards

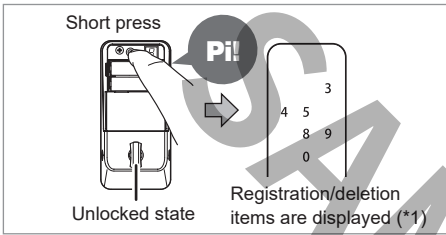
- Operations for confirming the registration address should be performed in the unlocked state. The operations are disabled in the locked state.

① Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

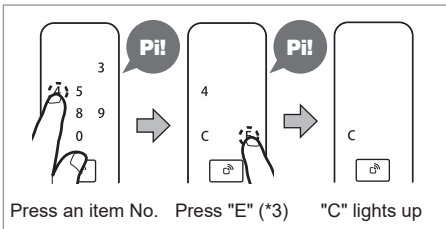
② Press the Set button short in the unlocked state.

The numbers for the selectable registration/deletion items light up.



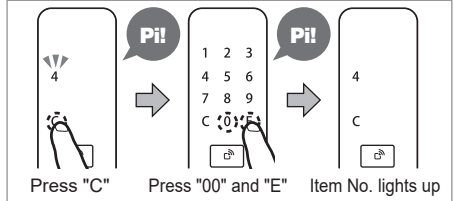
③ On the PIN pad, press the "item number" for the card to confirm → "E".
"C" lights up, and the item number flashes. (*2)

- * In the case of registration card, go on to hold a registered registration card over the reader.
- * In the case of user card, go on to hold a registered registration card or a master card over the reader.
- * In the case of master card, go on to hold a registered master card over the reader.



Types of card/PIN	Item No.
Construction card	1
Vacancy card	2
Registration card	3
User card	4
Master Card	5

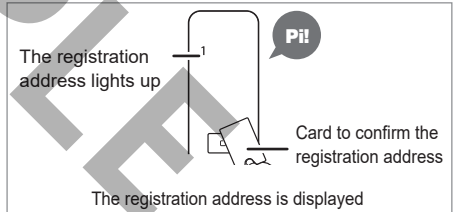
④ Press "C" → "00" → "E" on the PIN pad.
The item number and "C" light up.



⑤ Hold the card to confirm over the reader.

Number for the registration address is displayed. To continue confirmation, hold another card to confirm over the reader within 10 seconds.

- * If the registration address has 2 digits, they light up in the order of tens place → ones place.
- * If there is no registration, an error is displayed.
- * If you hold a card registered as a different item than the selected item number, then the device makes a sound "Pi-pi-pi!" and the number for that card flashes. (e.g. If you hold a vacancy card, then "2" flashes.)



⑥ Confirmation is completed.

To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

- *1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).
- *2 In the case of a registration card, user card, or master card, the item number flashes after holding the registered card over the reader.
- *3 To reselect a registration/deletion item, press "C" short to display the item numbers again.

Setting operations when the authentication mode is set to "AND authentication"

If the authentication mode is set to "AND authentication", you need to register a PIN associated with each card.

- * In the case of "AND authentication", there should be no registration of construction PIN, vacancy PIN, user PIN, and administrator PIN.

Registration of cards and PINs

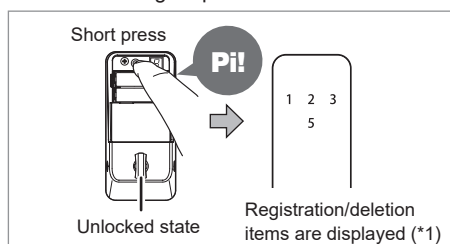
- Registration of PINs should be performed following the registration of cards.
- To register additional registration cards, a registered registration card is required.
- To register user cards, a registered registration card or a master card is required.
- To register additional master cards, a registered master card is required.
- Operations for PIN registration should be performed in the unlocked state. The operations are disabled in the locked state.
- When "AND authentication" is selected, the PINs should be 4 digits (fixed).

❶ Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

❷ Press the Set button short in the unlocked state.

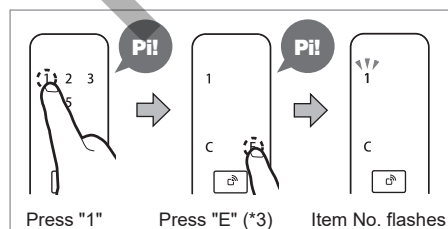
The numbers for the selectable registration/deletion items light up.



❸ On the PIN pad, press the "item number" for the card to register → "E".

"C" lights up, and the "item number" flashes. (*2)

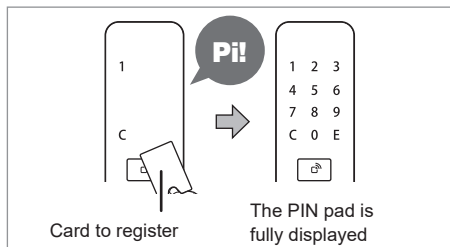
- * In the case of additional registration of registration card, go on to hold a registered registration card over the reader.
- * In the case of user card, go on to hold a registered registration card or a master card over the reader.
- * In the case of additional registration of master card, go on to hold a registered master card over the reader.



Types of card/PIN	Item No.
Construction card	1
Vacancy card	2
Registration card	3
User card	4
Master Card	5

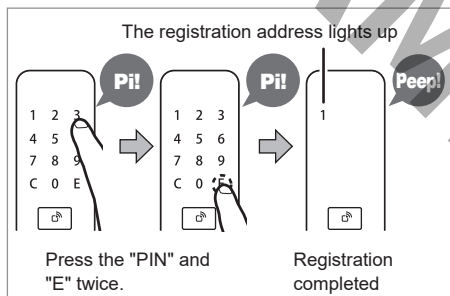
4 Hold the card to register over the reader.

The PIN pad is fully displayed.



5 On the PIN pad, press "PIN" → "E" → "PIN" → "E".

When the device makes a sound "Peep!" and the registration address of the registered card lights up, the registration is completed. PINs of 4 digits can be registered. To continue registration, hold another card to register over the reader within 10 seconds.



6 Registration is completed.

To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

- *1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).
- *2 In the case of a registration card (additional registration), user card, or master card (additional registration), the item number flashes after holding the registered card over the reader.
- *3 To reselect a registration/deletion item, press "C" short to display the item numbers again.

Change of PINs associated with cards

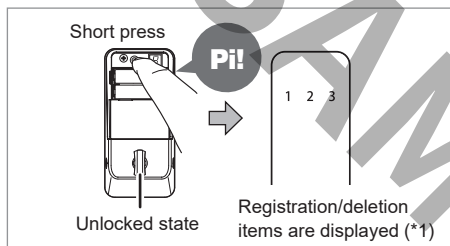
- Operations for changing PINs should be performed in the unlocked state. The operations are disabled in the locked state.
- Only the PINs are updated while registered information of the cards remain unchanged.
- When "AND authentication" is selected, the PINs should be 4 digits (fixed).

❶ Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

❷ Press the Set button short in the unlocked state.

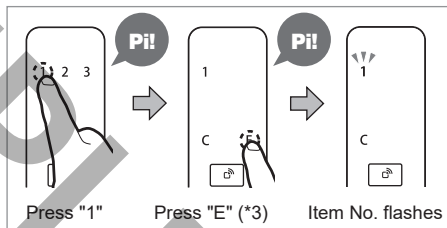
The numbers for the selectable registration/deletion items light up.



❸ On the PIN pad, press the "item number" for the card to change the PIN → "E".

"C" lights up, and the "item number" flashes. (*2)

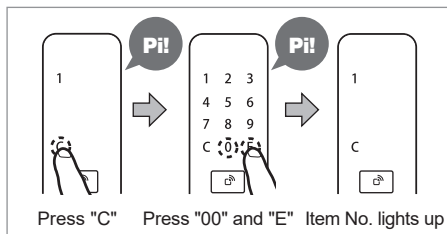
- * In the case of registration card, go on to hold a registered registration card over the reader.
- * In the case of user card, go on to hold a registered registration card or a master card over the reader.
- * In the case of master card, go on to hold a registered master card over the reader.



Types of card/PIN	Item No.
Construction card	1
Vacancy card	2
Registration card	3
User card	4
Master Card	5

❹ Press "C" → "00" → "E" on the PIN pad.

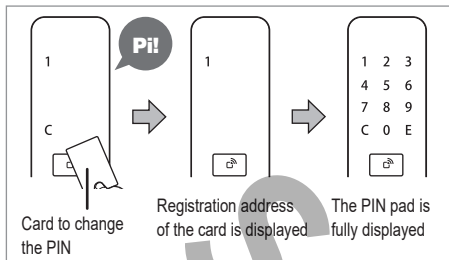
The card's "item number" and "C" light up.



⑤ Hold the card to change the PIN over the reader.

Registration address of the card is displayed, then all the numbers on the PIN pad are displayed.

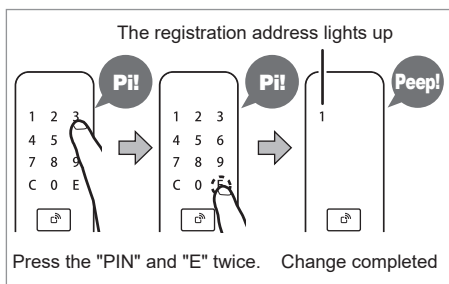
- * In the case of an unregistered card, an error is displayed.



- *1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).
- *2 In the case of a registration card, user card, or master card, the item number lights up after holding the registered card over the reader.
- *3 To reselect a registration/deletion item, press "C" short to display the item numbers again.

⑥ On the PIN pad, press "PIN" → "E" → "PIN" → "E".

When the device makes a sound "Peep!" and the registration address of the changed card lights up, the change is completed. PINs of 4 digits can be registered. To continue changing PINs, hold a card to change the PIN over the reader within 10 seconds, and perform the procedure to change the PIN in the same way.



⑦ Change is completed.

To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

Confirmation of PINs associated with cards

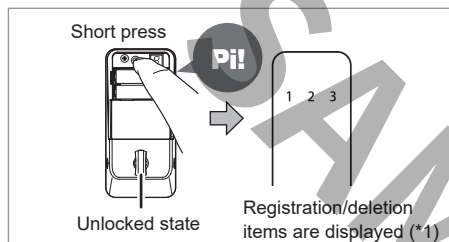
- Operations for PIN confirmation should be performed in the unlocked state. The operations are disabled in the locked state.

① Remove the battery cover on the inside in advance.

For procedure to remove the battery cover, refer to "How to remove and attach the battery cover" (Page 16).

② Press the Set button short in the unlocked state.

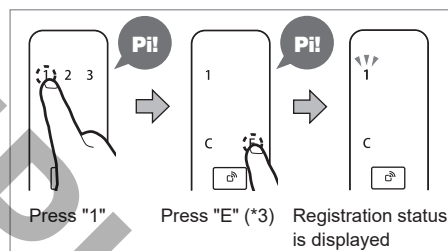
The numbers for the selectable registration/deletion items light up.



③ On the PIN pad, press the "item number" for the card to confirm the PIN → "E".

"C" lights up, and the "item number" flashes. (*2)

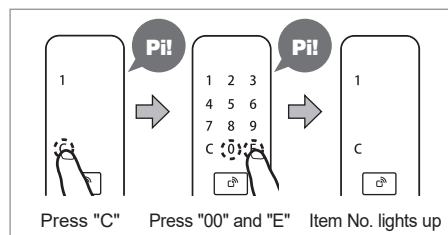
- * In the case of registration card, go on to hold a registered registration card over the reader.
- * In the case of user card, go on to hold a registered registration card or a master card over the reader.
- * In the case of master card, go on to hold a registered master card over the reader.



Types of card/PIN	Item No.
Construction card	1
Vacancy card	2
Registration card	3
User card	4
Master Card	5

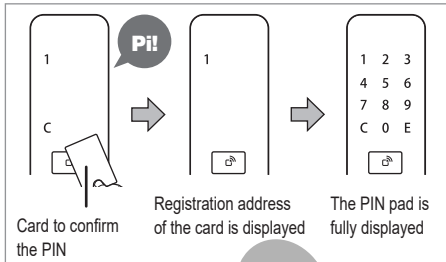
④ Press "C" → "00" → "E" on the PIN pad.

The card's "item number" and "C" light up.



5 Hold the card to confirm the PIN over the reader.

Registration address of the card is displayed, then all the numbers on the PIN pad are displayed.

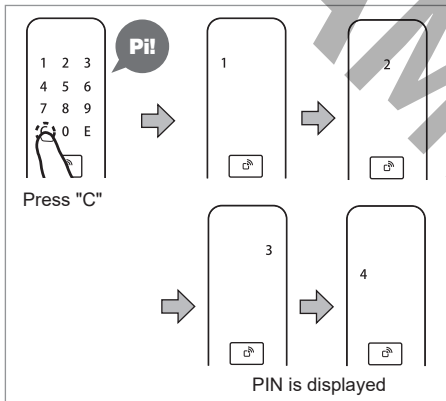


- *1 The displayed numbers change according to the registration status of respective cards and PINs (room status). For information on room status that can be operated, refer to "List of registration/deletion items" (Page 48).
- *2 In the case of a registration card, user card, or master card, the item number lights up after holding the registered card over the reader.
- *3 To reselect a registration/deletion item, press "C" short to display the item numbers again.

6 Press "C".

The registered PIN is displayed in the order it was entered.

(e.g.: In the case of 1234, "1" → "2" → "3" → "4".



7 Confirmation is completed.

After the PIN is displayed, the PIN pad goes back to the display of step 5. To finish the procedure, press the Start button or wait for 10 seconds until the display disappears. Attach the battery cover after the procedure is finished.

References

Quick Operation Guide

■ Normal operations

Use a lockable/unlockable card or PIN to perform operations in accordance with the room status (under construction, vacant, occupied)

No.	Operation	Operation method / Procedure	Notes	Referenced page
1	Use a card to lock/unlock (OR authentication)	(1) Press the Start button 1 time. (2) Hold a lockable/unlockable card over the reader.	* If "OR authentication, PIN overrides" is active, press the Start button 2 times. * If using a master card, keep on holding it over the reader for 5 seconds.	P.17
2	Use a PIN to lock/unlock (OR authentication)	(1) Press the Start button 2 times. (2) Press all the numbers for the Fake PIN. (3) Press the "PIN" → "E".	* If "OR authentication, PIN overrides" or "PIN authentication only" is active, press the Start button 1 time. * If the fake PIN option is set to OFF, you are not required to enter a fake PIN.	P.18
3	Use a card and a PIN to lock/unlock (AND authentication)	(1) Press the Start button 1 time. (2) Hold a lockable/unlockable card over the reader. (3) Press all the numbers for the Fake PIN. (4) Press the "PIN" → "E".	* If the fake PIN option is set to OFF, you are not required to enter a fake PIN. * If using a master card, keep on holding it over the reader for 5 seconds.	P.19
4	Use a mechanical key to lock/unlock	(1) Open the upper/lower cylinder cover. (2) Fit the mechanical key into the keyhole, and lock or unlock the door. (3) After locking/unlocking the door, close the upper/lower cylinder cover.	-	P.20
5	Use easy locking function	Press the Start button in the unlocked state.	* This function works only in the following conditions. • The easy locking function is set to ON. • A lockable/unlockable PIN is registered. • "Shutout PIN" is set to OFF. • The device is not in the mischief-preventing state. • The authentication mode is not set to "AND authentication" or "Card authentication only". * Easy locking function is not available while the emergency power supply is activated.	P.20
6	Switch ON/OFF the buzzer sound (operation sound)	(1) Bring the device to the card standby state or the PIN entering state. (No.1-(1), No.2-(1)(2), or No.3-(1)) (2) Hold down "C" for 5 seconds.	* Every time you hold down "C", the sound option is switched between ON (buzzer) and OFF (mute). * When the option is set to OFF, the Mute LED lights up while it is unlit when the option is set to ON.	P.21
7	Set the Shutout PIN option (temporarily disable PIN pad)	(1) Bring the device to the PIN entering state. (No.2-(1)(2)) (2) Press "C" → "99" → "E". (3) Hold a lockable/unlockable card over the reader. Or Press "C" → "Administrator PIN" → "E".	* This option is not available when "AND authentication" is active. * If using a master card, keep on holding it over the reader for 5 seconds.	P.22

No.	Operation	Operation method / Procedure	Notes	Referenced page
8	Cancel the Shutout PIN option	(1) Bring the device to the PIN entering state. (No.2-(1)) (2) Press "C" (3) Hold a lockable/unlockable card over the reader. Or Press "C" → "Administrator PIN" → "E".	* If using a master card, keep on holding it over the reader for 5 seconds.	P.22
9	Cancel the mischief-preventing state (where a wrong PIN is entered 5 consecutive times)	Do not perform any operation until the mischief-preventing state is canceled.	* The mischief-preventing state lasts for 3 min. to 4 min. * If you press the Start button before the state is canceled, the mischief-preventing period is extended for another 3 min. to 4 min.	P.21

■ Setting the right and left handed types

To change the right and left handed type of the device, be sure to configure the setting in both methods; physical setting and systematic setting.

Setting method	Setting procedure	Notes	Referenced page
Physical setting of the right and left handed type (at the time of installation)	(1) Set the thumb-turn of the control unit at the vertical position. (2) Use a long thin stick to push in the right/left handed switch button on the back side. (3) While keeping the button pushed inside, rotate the thumb-turn by 90 degrees to make it horizontal. • For left handed type: Rotate the thumb-turn clockwise by 90 degrees. • For right handed type: Rotate the thumb-turn counterclockwise by 90 degrees. (4) Release the button.	* When installing the device, make sure the thumb-turn works as intended.	P.29
Systematic setting of the right and left handed type (After installation)	(1) Press the Start button for 3 seconds. (2) Set the thumb-turn at the vertical position (unlocked state), and press "E". (3) Set the thumb-turn at the horizontal position (locked state), and press "E".	* After the setting, press the Start button and make sure that the state of the thumb-turn (locked/unlocked state) matches the display of the Lock/Unlock LED.	P.30

■ System settings

Hold down the Set button for 3 seconds under the battery cover on the inside **in the unlocked state** to shift to the system setting mode.

Setting item	Page	Item No.	Setting options (Those with * are the default.)	Setting value	Setting procedure	Room status which allows the setting			
						Under construction	Vacant	Occupied	
Operation mode (Only confirmation is possible)	1	1	FKLID mode *	2	(Only confirmation is possible.) (1) Press the item No. "1" → "E". (2) The setting value "2 or 3" is displayed.	○	○	×	
			Guest's arbitrary ID mode	3					
Authentication mode		2		OR authentication, Card overrides *	1	(1) Press the item No. "2" → "E". (2) Press the setting value "1 or 2 or 3 or 4 or 5" → "E". * After changing the authentication mode, all the registrations of cards and PINs are deleted.	○	○	×
				OR authentication, PIN overrides	2				
				AND authentication	3				
				Card authentication only	4				
				PIN authentication only	5				
Special setting in occupancy (PIN authentication not allowed while in occupancy)		3		ON	1	(1) Press the item No. "3" → "E". (2) Press the setting value "1 or 0" → "E".	○	○	×
				OFF *	0				
Fake PIN		4		ON *	1	(1) Press the item No. "4" → "E". (2) Press the setting value "1 or 0" → "E".	○	○	○
				OFF	0				
Mischief prevention		5		ON *	1	(1) Press the item No. "5" → "E". (2) Press the setting value "1 or 0" → "E".	○	○	○
				OFF	0				
Easy locking function		6		ON *	1	(1) Press the item No. "6" → "E". (2) Press the setting value "1 or 0" → "E".	○	○	○
				OFF	0				
Lock/Unlock LED displayed at start-up	7		ON *	1	(1) Press the item No. "7" → "E". (2) Press the setting value "1 or 0" → "E".	○	○	○	
			OFF	0					
Auto-lock setting	8		ON	1	(1) Press the item No. "8" → "E". (2) Press the setting value "1 or 0" → "E".	○	○	○	
			OFF *	0					
Right/left handed type setting	9		Right handed type *	None	(1) Press the item No. "9" → "E". (2) Press the setting value "1 or 0" → "E".	○	○	○	
			Left handed type						
BLE setting	2	1	Lower unit	Pairing	1	Set BLE pairing for the main lock and auxiliary lock, door open/close sensor, and I/F unit (to be obtained separately). Select the target devices and configure the BLE pairing setting. (For spec of 2-lock and door open/close sensor, pairing of upper/lower units and door open/close sensor are already completed when the product is shipped.)	○	○	○
				Cancel					
			Door open/close sensor	Pairing	2				
				Cancel					
			I/F unit	Pairing	3				
				Cancel *					
Time setting	2	2	Not used			○	○	○	
Auto-lock wait time setting		3	2 *	1-9	Specify the wait time before the thumb-turn operates after the door is closed and the open/close sensor detects the closed status. * The time before the function operates is determined by the set value. e.g.) Set value 1: approx. 1 sec., Set value 2: approx. 2 sec.	○	○	○	

■ Registration and deletion of various cards/PINs

Press the Set button short under the battery cover on the inside **in the unlocked state**, and shift to the mode for registering/deleting cards and PINs.

Registration/ deletion items	Item No.	Operation	Operation procedure	Room status which allows the setting			Referenced page
				Under construction	Vacant	Occupied	
Construction card	1	Registration	(1) Press the item No. "1" → "E". (2) Hold the card to register over the reader. * Additional cards can be registered later in the above procedure. * Registration address of the card is displayed at the time the card is registered.	○	×	×	P.50
		Deletion	(1) Press the item No. "1" → "E". (2) Press "C" → "Registration address of the card to delete" → "E". (For entire deletion, press "C" → "999" → "E".)	○	×	×	P.51
		Confirmation of registration address	(1) Press the item No. "1" → "E". (2) Press "C" → "00" → "E". (3) Hold the construction card to confirm the registration address over the reader. (4) Registration address of the scanned card is displayed.	○	×	×	P.82
Vacancy card	2	Registration	(1) Press the item No. "2" → "E". (2) Hold the card to register over the reader. * Additional cards can be registered later in the above procedure. * Registration address of the card is displayed at the time the card is registered.	○	○	×	P.58
		Deletion	(1) Press the item No. "2" → "E". (2) Press "C" → "Registration address of the card to delete" → "E". (For entire deletion, press "C" → "999" → "E".)	×	○	×	P.59
		Confirmation of registration address	(1) Press the item No. "2" → "E". (2) Press "C" → "00" → "E". (3) Hold the vacancy card to confirm the registration address over the reader. (4) Registration address of the scanned card is displayed.	×	○	×	P.82

Registration/ deletion items	Item No.	Operation	Operation procedure	Room status which allows the setting			Referenced page
				Under construction	Vacant	Occupied	
Registration card	3	New registration	(1) Press the item No. "3" → "E". (2) Hold the card to register over the reader. * Registration address of the card is displayed at the time the card is registered.	○	○	×	P.63
		Additional registration	(1) Press the item No. "3" → "E". (2) Hold a registered registration card over the reader. (3) Hold the card to register over the reader. * Registration address of the card is displayed at the time the card is registered.	×	×	○	P.64
		Deletion	(1) Press the item No. "3" → "E". (2) Hold a registered registration card over the reader. (3) Press "C" → "Registration address of the card to delete" → "E". (For entire deletion, press "C" → "999" → "E" → "999" → "E".) * If only one registration card is registered, individual deletion is not possible. (Entire deletion is possible.) * When entire deletion is performed (which means leaving operation is performed), user cards, user PINs, and administrator PIN are entirely deleted at the same time.	×	×	○	P.65
		Leaving operation	(1) Press the item No. "3" → "E". (2) Press "C" → "999" → "E" → "999" → "E". * When leaving operation is performed, all the registration cards, user cards, user PINs, and administrator PIN are deleted.	○	○	○	P.80
		Confirmation of registration address	(1) Press the item No. "3" → "E". (2) Hold a registered registration card over the reader. (3) Press "C" → "00" → "E". (4) Hold the registration card to confirm the registration address over the reader. (5) Registration address of the scanned card is displayed.	×	×	○	P.82

Registration/ deletion items	Item No.	Operation	Operation procedure	Room status which allows the setting			Referenced page
				Under construction	Vacant	Occupied	
User card	4	Registration	(1) Press the item No. "4" → "E". (2) Hold a registered registration card or a master card over the reader. (3) Hold the card to register over the reader. * Additional cards can be registered later in the above procedure. * Registration address of the card is displayed at the time the card is registered. * If a user card is registered using a master card without registering registration cards, registration of registration cards is not possible.	○	○	○	P.66
		Deletion	(1) Press the item No. "4" → "E". (2) Hold a registered registration card or a master card over the reader. (3) Press "C" → "Registration address of the card to delete" → "E". (For entire deletion, press "C" → "999" → "E".)	×	×	○	P.67
		Confirmation of registration address	(1) Press the item No. "4" → "E". (2) Hold a registered registration card or a master card over the reader. (3) Press "C" → "00" → "E". (4) Hold the user card to confirm the registration address over the reader. (5) Registration address of the scanned card is displayed.	×	×	○	P.82

Registration/ deletion items	Item No.	Operation	Operation procedure	Room status which allows the setting			Referenced page
				Under construction	Vacant	Occupied	
Master Card	5	New registration	(1) Press the item No. "5" → "E". (2) Hold the card to register over the reader. * This card can be registered only when no other card/ PIN is registered. * Registration address of the card is displayed at the time the card is registered.	×	×	×	P.55
		Additional registration	(1) Press the item No. "5" → "E". (2) Hold a registered master card over the reader. (3) Hold the card to register over the reader. * Registration address of the card is displayed at the time the card is registered.	○	○	○	P.56
		Deletion	(1) Press the item No. "5" → "E". (2) Hold a registered master card over the reader. (3) Press "C" → "Registration address of the card to delete" → "E". (For entire deletion, press "C" → "999" → "E" → "999" → "E".) * If only one master card is registered, individual deletion is not possible. (Entire deletion is possible.) * When entire deletion is performed (which means leaving operation is performed), registration cards, user cards, user PINs, and administrator PIN are entirely deleted at the same time.	○	○	○	P.57
		Confirmation of registration address	(1) Press the item No. "5" → "E". (2) Hold a registered master card over the reader. (3) Press "C" → "00" → "E". (4) Hold the master card to confirm the registration address over the reader. (5) Registration address of the scanned card is displayed.	○	○	○	P.82
Construction PIN	6	Registration (change)	(1) Press the item No. "6" → "E". (2) Press the registration address "1 or 2 or 3" → "E". (3) Press "PIN" → "E" → "PIN" → "E". * To change a PIN, register a new PIN in the above procedure to overwrite the old PIN.	○	×	×	P.52
		Deletion	(1) Press the item No. "6" → "E". (2) Press the registration address "1 or 2 or 3" → "E". (3) Hold down "C" for 5 seconds.	○	×	×	P.53
		Confirmation of PIN	(1) Press the item No. "6" → "E". (2) Press the registration address "1 or 2 or 3" → "E". (3) Press "C" (Short press) (4) The corresponding PIN is displayed.	○	×	×	P.54

Registration/ deletion items	Item No.	Operation	Operation procedure	Room status which allows the setting			Referenced page
				Under construction	Vacant	Occupied	
Vacancy PIN	7	Registration (change)	(1) Press the item No. "7" → "E". (2) Press the registration address "1 or 2 or 3" → "E". (3) Press "PIN" → "E" → "PIN" → "E". * To change a PIN, register a new PIN in the above procedure to overwrite the old PIN.	○ *1	○	×	P.60
		Deletion	(1) Press the item No. "7" → "E". (2) Press the registration address "1 or 2 or 3" → "E". (3) Hold down "C" for 5 seconds.	×	○	×	P.61
		Confirmation of PIN	(1) Press the item No. "7" → "E". (2) Press the registration address "1 or 2 or 3" → "E". (3) Press "C" (Short press) (4) The corresponding PIN is displayed.	×	○	×	P.62
User PIN	8	Registration (under construction, vacancy)	(1) Press the item No. "8" → "E". (2) Press the registration address "1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9" → "E". (3) Press "PIN" → "E" → "PIN" → "E". * Registration is not possible while the special setting in occupancy is ON. * If a user PIN is registered without registering registration cards, registration of registration cards is not possible.	○ *1	○ *1	×	-
		Registration (change) (occupancy)	(1) Press the item No. "8" → "E". (2) Hold a registered registration card or a master card over the reader. Or press "C" → "User PIN" → "E". (3) Press the registration address "1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9" → "E". (4) Press "PIN" → "E" → "PIN" → "E". * Registration is not possible while the special setting in occupancy is ON. * To change a PIN, register a new PIN in the above procedure to overwrite the old PIN.	×	×	○	P.68, P.70
		Deletion	(1) Press the item No. "8" → "E". (2) Hold a registered registration card or a master card over the reader. Or press "C" → "PIN" → "E". (3) Press the registration address "1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9" → "E". (4) Hold down "C" for 5 seconds.	×	×	○	P.72
		Confirmation of PIN	(1) Press the item No. "8" → "E". (2) Hold a registered registration card or a master card over the reader. Or press "C" → "PIN" → "E". (3) Press the registration address "1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9" → "E". (4) Press "C" (Short press) (5) The corresponding PIN is displayed.	×	×	○	P.74

*1 New registration only

Registration/ deletion items	Item No.	Operation	Operation procedure	Room status which allows the setting			Referenced page
				Under construction	Vacant	Occupied	
Administrator PIN	9	Registration	(1) Press the item No. "9" → "E". (2) Press the registration address "1" → "E". (3) Press "Administrator PIN" → "E" → "Administrator PIN" → "E". * Registration is not possible while the special setting in occupancy is ON.	×	×	○	P.76
		Change	(1) Press the item No. "9" → "E". (2) Press "Administrator PIN" → "E". (3) Press the registration address "1" → "E". (4) Press "Administrator PIN" → "E" → "Administrator PIN" → "E".	×	×	○	P.77
		Deletion	(1) Press the item No. "9" → "E". (2) Press "Administrator PIN" → "E". (3) Press the registration address "1" → "E". (4) Hold down "C" for 5 seconds.	×	×	○	P.79
Setting of cards/PINs when AND authentication is active	-	New registration of cards	(1) Press the item No. of the card to register "1 or 2 or 3 or 4 or 5" → "E". • In the case of user card: Hold a registered registration card or a master card over the reader. (2) Hold the card to register over the reader. (3) Press "PIN" → "E" → "PIN" → "E".	-	-	-	P.83
		Additional registration of cards	(1) Press the item No. of the card to additionally register "1 or 2 or 3 or 4 or 5" → "E". • In the case of user card: Hold a registered registration card or a master card over the reader. • In the case of registration card: Hold a registered registration card over the reader. • In the case of master card: Hold a registered master card over the reader. (2) Hold the card to register over the reader. (3) Press "PIN" → "E" → "PIN" → "E".	○	○	○	P.83

Registration/ deletion items	Item No.	Operation	Operation procedure	Room status which allows the setting			Referenced page
				Under construction	Vacant	Occupied	
Setting of cards/PINs when AND authentication is active	-	Change of PINs associated with cards	(1) Press the item No. of the card to change "1 or 2 or 3 or 4 or 5" → "E". - In the case of user card: Hold a registered registration card or a master card over the reader. - In the case of registration card: Hold a registered registration card over the reader. - In the case of master card: Hold a registered master card over the reader. (2) Press "C" → "00" → "E". (3) Hold the card to change over the reader. (4) Press "PIN" → "E" → "PIN" → "E".	-	-	-	P.85
		Deletion of cards	(1) Press the item No. of the card to delete "1 or 2 or 3 or 4 or 5" → "E". - In the case of user card: Hold a registered registration card or a master card over the reader. - In the case of registration card: Hold a registered registration card over the reader. - In the case of master card: Hold a registered master card over the reader. (2) Press "C" → "Registration address of the card to delete" → "E". (For entire deletion of construction cards, vacancy cards, and user cards, press "C" → "999" → "E". For entire deletion of registration cards and master cards, press "C" → "999" → "E" → "999" → "E".) * There is no operation to delete PINs associated with cards. Deleting cards also deletes PINs associated with them. * If only one registration card or master card is registered, individual deletion is not possible. (Entire deletion is possible.) * When entire deletion of registration cards and master cards is performed (which means leaving operation is performed), registration cards, user cards, user PINs, and administrator PIN are entirely deleted at the same time.	-	-	-	-

Registration/ deletion items	Item No.	Operation	Operation procedure	Room status which allows the setting			Referenced page
				Under construction	Vacant	Occupied	
Setting of cards/PINs when AND authentication is active	-	Confirmation of PINs associated with cards	(1) Press the item No. of the card to confirm "1 or 2 or 3 or 4 or 5" → "E". - In the case of user card: Hold a registered registration card or a master card over the reader. - In the case of registration card: Hold a registered registration card over the reader. - In the case of master card: Hold a registered master card over the reader. (2) Press "C" → "00" → "E". (3) Hold the card to confirm over the reader. (4) Press "C" (5) The corresponding PIN is displayed.	-	-	-	P.87

Registration/ deletion items	Item No.	Confirmation item	No.	Operation procedure	Room status which allows the setting			Referenced page
					Under construction	Vacant	Occupied	
Check the number of registered IDs	0	Construction card	1	(1) Press the item No. "0" → "E". (2) Press the item No. "1 or 2 or 3 or 4 or 5" → "E". (3) The number of registrations for the corresponding card is displayed.	○	○	○	P.81
		Vacancy card	2					
		Registration card	3					
		User card	4					
		Master Card	5	(1) Press the item No. "0" → "E". (2) Press the item No. "6 or 7 or 8 or 9" → "E". (3) The number of registrations for the corresponding PIN is displayed.				
		Construction PIN	6					
		Vacancy PIN	7					
		User PIN	8					
		Administrator PIN	9					

List of LED displays and buzzer sounds

Category	Description	Display area on the inside	LED display										Buzzer	Buzzer setting enabled	Notes	
			Unlock (red)	Mute (red)	Battery (red)	Lock (green)	PIN pad (orange)					C				E
							1	2	3							
							4	5	6	7	8					
Basic display	At the time of power activation	All light up	Synchronized with buzzer										Peeeeep! (2 seconds)			
	During lock/unlock operation	Off										-	-	Battery LEDs are not turned off at the time of battery warning and emergency battery activation.		
	When the buzzer sound is set to ON	Off										Long sound				
	When the buzzer sound is set to OFF	Off		Light up (2 seconds)	Off						Long sound					
	Low battery warning (main lock)	Flash at medium speed (• twice)	Follow other display			Flash at low speed	Follow other display					Successive (2 seconds)	-			
	Empty battery (main/auxiliary lock)	Flash at high speed (• 8 times)	Flash at high speed (8 times)	Off		Flash at high speed (8 times)	Off					Successive (2 seconds)	-			
	Low battery warning (auxiliary lock)	Flash at medium speed (• twice)	Follow other display			Flash at low speed	Follow other display					Successive (2 seconds)	-			
	Empty battery (auxiliary lock)	Flash at high speed (• 8 times)	Off			Flash at high speed (8 times)	Off					Successive (2 seconds)	-			
	Low battery warning (main/auxiliary lock)	Flash at medium speed (• alternately • twice)	Follow other display			Flash at low speed	Follow other display					Successive (2 seconds)	-			
	Empty battery (main/auxiliary lock)	Flash at high speed (• alternately • 8 times)	Flash at high speed (8 times)	Off		Flash at high speed (8 times)	Off					Successive (2 seconds)	-			
	Low battery warning (door open/close sensor)	Flash at medium speed (• twice)	Follow other display			Flash at low speed	Follow other display					Successive (2 seconds)	-			
	Empty battery (door open/close sensor)	Flash at high speed (• 8 times)	Off			Flash at high speed (8 times)	Off					Successive (2 seconds)	-			

* The columns with [-] mean that the display and sound are provided according to other state and operations.

Category	Description	Display area on the inside	LED display							Buzzer	Buzzer setting enabled	Notes				
			Unlock (red)	Mute (red)	Battery (red)	Lock (green)	PIN pad (orange)						C	E		
							1	2	3							
							4	5	6	7	8	9	0			
Basic display	When the emergency power supply is activated (main/auxiliary lock)	Off	Follow other display		Light up	Follow other display							-	-		
	When the Start button is operated	Follow the operation mode after pressing it									Short sound	○				
	When in card standby state (lock/unlock display at start-up: no)	Off	Off	Light up (when the buzzer is OFF, until timeout)	*1	Off			Light up	Off	-	-	*1 While the low battery warning state is activated, the display according to the specification of low battery warning display continues until the device goes into the sleep state.			
	When in card standby state (lock/unlock display at start-up: yes)	Off	Light up (except locked state, until timeout)	Light up (when the buzzer is OFF, until timeout)	*1	Light up (when in locked state, until timeout)	Off		Light up	Off	-	-	*1 While the low battery warning state is activated, the display according to the specification of low battery warning display continues until the device goes into the sleep state.			
	While accepting (reading) card	Off	Maintain the previous state							Short sound	○					
	While entering a Fake PIN	Off	Maintain the previous state				Only operated keys are turned off		Off	Short sound	○					
	While entering with the PIN pad	Off	Maintain the previous state				Kept off for 100 seconds immediately after operation			Short sound	○					
	Lock completed	Off	Off			Light up	Off				Successive (1 second)	○				
	Unlock completed	Off	Light up	Off							Successive (1 second)	○				
	Error	Off	Flash at high speed (3 times)	Maintain the previous state			Off				Short sound (5 times)	-	The display will be as shown here when authentication results in NG in both card authentication and PIN authentication.			
	When the Shutout PIN is set	Off	Off				Flash at low speed (3 times)				Successive (2 seconds)					

* The columns with [-] mean that the display and sound are provided according to other state and operations.

Category	Description	Display area on the inside	LED display							Buzzer	Buzzer setting enabled	Notes		
			Unlock (red)	Mute (red)	Battery (red)	Lock (green)	PIN pad (orange)						C	E
							1 4 7 0	2 5 8	3 6 9					
Basic display	When the Shutout PIN is canceled	Off	Off				Light up (2 seconds)			Successive (2 seconds)				
	Mischief-preventing state	Off	Off				Flash at high speed (25 times)		Off	Successive short sound (100 times)				
	BLE external authentication in progress	Off	Off							-	-			
	BLE external authentication succeeded	Off	Off							-	-			
	BLE external authentication failed	Off	Off							-	-			
	BLE external authentication timed out	Off	Off							-	-			
In abnormal events	Lock error	Off	Off			Flash at high speed (10 times)	Off			Successive (4 seconds)				
	Unlock error	Off	Flash at high speed (10 times)	Off							Successive (4 seconds)			
	Device error (1)	All light up (synchronized with buzzer)	*2 (synchronized with buzzer)	Off		*3 (synchronized with buzzer)	All keys light up (synchronized with buzzer)			Successive long sound (3 times)		*2 Light up in synchronization with buzzer only if the main lock has an error *3 Light up in synchronization with buzzer only if the auxiliary lock has an error		
	Device error (2)	All flash at high speed (8 times)	All keys flash at high speed (8 times)							Successive short sound (30 times)				
	BLE link connection error (auxiliary lock)	Off	Flash at high speed (4 times)	Off		Flash at high speed (4 times)	Flash at high speed (1, 2, and 3: 4 times)	Off		Successive short sound (10 times)				
	BLE link connection error (BLE open/close sensor)	Off	Flash at high speed (4 times)	Off		Flash at high speed (4 times)	Flash at high speed (4, 5, and 6: 4 times)	Off						
	BLE link connection error (I/F unit)	Off	Flash at high speed (4 times)	Off		Flash at high speed (4 times)	Flash at high speed (7 only: 4 times)	Off						

* The columns with [-] mean that the display and sound are provided according to other state and operations.

Category	Description	Display area on the inside 	LED display							Buzzer	Buzzer setting enabled	Notes		
			Unlock (red) 	Mute (red) 	Battery (red) 	Lock (green) 	PIN pad (orange)						C	E
							1	2	3					
			4	5	6	7	8	9	0					
In abnormal events	BLE link connection error (BLE extension device 1)	Off	Flash at high speed (4 times)	Off	Flash at high speed (4 times)	Flash at high speed (8 only: 4 times)	Off							
	BLE link connection error (BLE extension device 2)	Off	Flash at high speed (4 times)	Off	Flash at high speed (4 times)	Flash at high speed (9 only: 4 times)	Off							
	Authentication results in NG on registration of settings (registration card, vacancy PIN, etc.)	Off	Flash at high speed (3 times)	Maintain the previous state	Off			Successive short sound (3 times)						
Registration/deletion of settings	Waiting for setting of right/left handed type and unlocking direction	Off	Flash at low speed (until timeout)	Off			Light up (until timeout)			-	-			
	Operation to determine the setting of right/left handed type and unlocking direction	Off	Maintain the previous state			Kept off for 100 seconds immediately after operation			Short sound	○				
	Determination of the setting of right/left handed type and unlocking direction	Off	Light up	Off			Successive (1 second)							
	Determination of the setting of right/left handed type and locking direction	Off			Light up	Off			Successive (1 second)					
	Determination of registration address	Off	Maintain the previous state			Off			Short sound					
	Determination of ID registration/deletion target	Off	Maintain the previous state			Off			Short sound					
	Card registration completed	Off			*4	Off			Long sound	*4 The lighting is performed as follows to indicate the registered numbers. • Single digit: The target number lights up for 2 seconds • Double digits: Tens place lights up for 0.75 sec. + light off for 0.25 sec. + ones place lights up for 0.75 sec. • Triple digits: Hundreds place lights up for 0.75 sec. + light off for 0.25 sec. + tens place lights up for 0.75 sec. + light off for 0.25 sec. + ones place lights up for 0.75 sec.				

* The columns with [-] mean that the display and sound are provided according to other state and operations.

Category	Description	Display area on the inside	LED display										Buzzer		Buzzer setting enabled	Notes
			Unlock (red)	Mute (red)	Battery (red)	Lock (green)	PIN pad (orange)									
							1 4 7 0	2 5 8 C	3 6 9 E							
Registration/deletion of settings	Card deletion in progress (Waiting for selection of the card to be deleted)		Off				Light up (until timeout)	Flash at high speed (until timeout)	Light up (until timeout)	-	-					
	Card deletion completed		Off				*5	Off		Successive long sound (2 times)		*5 The lighting is performed as follows to indicate the deleted number is as follows. • Single digit: The target number lights up for 2 seconds • Double digits: Tens place lights up for 0.75 sec. + light off for 0.25 sec. + ones place lights up for 0.75 sec. • Triple digits: Hundreds place lights up for 0.75 sec. + light off for 0.25 sec. + tens place lights up for 0.75 sec. + light off for 0.25 sec. + ones place lights up for 0.75 sec. • Entire deletion: All numerical keys light up at a time for 0.75 sec. + light off for 0.25 sec. This sequence is repeated twice.				
	PIN registration completed		Off				Light up (registered address, 1 second)	Off	Long sound	-						
	PIN deletion completed		Off				Light up (deleted address, 2 seconds)	Off	Successive long sound (2 times)	-						
	Leaving operation completed		Off				*6	Off		Successive long sound (2 times)	-	*6 All numerical keys light up at a time for 0.75 sec. + light off for 0.25 sec. This sequence is repeated twice.				
	Pairing in process	Off	Maintain the previous state				Flash at low speed (Selected device No., until timeout)	Light up	Flash at low speed	-	-					
	Pairing cancellation in process	Off	Maintain the previous state				Flash at low speed (Selected device No., until timeout)	Flash at low speed	Light up	-	-					

* The columns with [-] mean that the display and sound are provided according to other state and operations.

Category	Description	Display area on the inside	LED display										Buzzer	Buzzer setting enabled	Notes
			Unlock (red)	Mute (red)	Battery (red)	Lock (green)	PIN pad (orange)								
							1 4 7 0	2 5 8 	3 6 9 	C	E				
Registration/deletion of settings	Pairing completed	Off	Maintain the previous state				Flash at low speed (Selected device No., until timeout)			Light up	Light up	Successive (1 second)			
	Pairing cancellation completed	Off	Maintain the previous state				Flash at low speed (Selected device No., until timeout)			Light up	Light up	Successive long sound (2 times)			
	Date/Time display	Off	Maintain the previous state				*7			Off		-	-	*7 Date/Time is displayed as follows. Year/Month/Date/Hour/Minute is displayed by each lighting up for 0.75 sec. + lighting off for 0.25 sec. Light-off period is held respectively between the display of Year → Month → Date → Hour → Minute In the case of the year 16, July 19, 12:00, for example, "1" (light up for 0.75 sec. + light off for 0.25 sec.) → "6" (light up for 0.75 sec. + light off for 0.25 sec.) → light off for 0.75 sec. → "0" (light up for 0.75 sec. + light off for 0.25 sec.) → "7" (light up for 0.75 sec. + light off for 0.25 sec.) → light off for 0.75 sec.	
	Determination of various settings	Off	Maintain the previous state				Only determined values light up			Off		Successive (1 second)			

* The columns with [-] mean that the display and sound are provided according to other state and operations.

Troubleshooting

■ Unable to register a card/PIN

Conditions	Cause/Measure	Referenced page
The device does not shift to the mode for registering/deleting cards and PINs when the Set button is pressed.	[Cause 1] The device is not in the unlocked state. [Measure 1] Unlock the door with the thumb-turn, and press the Set button. * All the operations for system settings and registration/deletion of cards/PINs should be performed in the unlocked state.	P.23
	[Cause 2] The right and left handed type is not set correctly. [Measure 2] Reconfigure the setting of the right and left handed type correctly. * Press the Start button and make sure that the state of the thumb-turn matches the display of the Lock/Unlock LED.	P.29
The item number for the card/PIN to register/delete is not displayed.	[Cause] The room has not become the state which allows to register and delete the corresponding card/PIN. [Measure] Check the registration status of the card/PIN. Following are the cards and PINs that can be registered for each room status. • When no card/PIN is registered: → Default status: New master card can be registered. After a new master card is registered, additional master cards can be registered at any room status. • When nothing is registered other than construction cards/PINs and master cards. → Under construction: Construction cards/PINs, vacancy cards/PINs, registration cards/PINs, user cards/PINs can be registered. • When either of vacancy card or PIN is registered: (Registration cards, user cards/PINs are unregistered) → Vacant: Vacancy cards/PINs, registration cards, user cards/PINs can be registered. • When either of registration card, user card, or user PIN is registered: → Occupied: Registration cards, user cards, user PINs and administrator PIN can be registered. However, if a user card or a user PIN is registered without registering registration cards and the room status becomes occupied, registration of registration cards is not possible.	P.81

Conditions	Cause/Measure	Referenced page
Held a card over the reader, but registration is not possible and an error is displayed.	[Cause] The operation performed was wrong. e.g.) - You held a card to register over the reader in the operation of card authentication. - You held an already registered card over the reader. - You have reached the maximum number of cards that can be registered. [Measure] Perform the operation in the correct order referring to the operation manual.	-
Held a card over the reader, but the device does not react and registration is not possible.	[Cause] You held an unusable card. e.g.) - You held a card other than FKL card or FL key head in FKL ID mode. - You held a card other than FeliCa or Mifare (Standard 1K/4K) in arbitrary ID mode. Otherwise, you held a card of a different format than the specified card format. [Measure] Confirm the operation mode, and hold a card corresponding to the setting over the reader.	-
Can not set or cancel Bluetooth pairing.	[Cause] The operation performed was wrong. [Measure] Perform the operation in the correct order referring to the operation manual.	P.35

■ Unable to lock/unlock a door.

Conditions	Cause/Measure	Referenced page
Pressed the Start button, but the device does not function at all.	[Cause] Here are possible causes. - No batteries are set. - The batteries are set in wrong orientation. - The batteries are completely dead. [Measure] Check the batteries. Replace the batteries. * If the door is locked, feed power from the emergency power supply terminal to unlock it. * If the device does not function at all after replacing batteries, then have the device inspected. (Check if the inside/outside wirings are connected, and if there is any broken wire.)	P.25-27

Conditions		Cause/Measure	Referenced page
	LED display/buzzer sound		
Can not perform card/ PIN operations.	The battery LED flashes (fast) / "Peeeeeep!"	[Cause] The battery is empty in either or both of the upper and lower units on the inside. [Measure] Replace all the batteries. * If the door is locked, feed power from the emergency power supply terminal to unlock it.	P.25-27
	All the numbers (except for C and E of PIN pad) flash (fast) / "Pi-pi-pi-pi...."	[Cause] The device is in the mischief-preventing state. (A wrong PIN was entered 5 consecutive times) [Measure] Do not perform an operation until the mischief-preventing state is canceled. (3 to 4 minutes) * If you press the Start button in the mischief-preventing state, the mischief-preventing period is extended for another 3 min. to 4 min.	P.21
	All LEDs flash (fast) / "Pi-pi-pi-pi...."	[Cause] The device has an abnormality. [Measure] You need to replace the device. * Locking/unlocking by the card lock is not possible.	-
	Lock/unlock LED flashes in turns	[Cause] Pairing of the upper and lower units is not working due to empty battery of the auxiliary lock. [Measure] Either replace the battery of the lower unit on the inside or feed power from the emergency power supply terminal of the lower unit on the outside to restore the pairing.	P.25-27
Can not perform PIN operations.	The PIN pad flashes overall (flow) / "Pi!"	[Cause] The "Shutout PIN" is activated. [Measure] Cancel the Shutout PIN option. * To set and cancel the "Shutout PIN", a lockable/unlockable card or an administrator PIN is required.	P.22
Held a card over the reader, but the device does not react.		[Cause] Here are possible causes. • You did not press the Start button. • You did not hold the card at the correct position (over the Start button). • You held multiple cards stacked together. • The card was placed in close contact with metals (such as key chain). • A sticker that includes metallic composition is attached to the card. • The card is damaged. • You held an unusable contactless IC card* over the reader. [Measure] • Press the Start button. • Hold a card at the correct position (over the Start button). • Hold a single card instead of multiple cards over the reader. • Remove any metals from the card. • Hold a different card over the reader. * If the device reacts to a different card, then the card that did not work is considered to have a problem.	P.12

* Cards other than FeliCa and Mifare (Standard 1K/4K), and FeliCa and Mifare cards in a different format.

Conditions	Cause/Measure	Referenced page
Card/PIN authentication fails.	[Cause] Here are possible causes. • The card/PIN is unregistered. • You used a card/PIN that does not meet the room status (under construction, vacant, occupied). [Measure] • Check the registration address of the card and registered PIN. • Check the registration status of the card/PIN. * If the door is locked, use a different card/PIN to unlock it.	P.54, P.62, P.74, P.81
The device reacts to the card (makes a sound "Pi!"), but authentication is not possible. (The authentication results in neither OK nor NG.)	[Cause] You held a card over the PIN pad. * If you hold a contactless IC card on the PIN pad, it may react to the touch sensor of the PIN pad. [Measure] Hold a card at the correct position (over the Start button). * When you hold an unusable contactless IC card* over the card reader (Start button), the device does not usually react to it. However, if the card contacts the display area of "C" on the PIN pad, the touch sensor may react to it and the device may make a sound "Pi!". * If you keep on having the card contact the display area of "C" on the PIN pad, the touch sensor may react to it and the buzzer sound ON/OFF setting may be switched. Please beware of these points.	P.12, P.21
Held a card over the reader, but a random number of 2-4 digits is displayed, and the door can not be locked/unlocked.	[Cause] The device is set to "AND authentication". (State where a fake PIN is displayed) [Measure] Press the displayed number of 2-4 digits, and enter the PIN registered for each card.	P.19
The door is not locked automatically after unlocking.	[Cause] Here are possible causes. • Auto-lock function is set to off. • Th thumb-turn or the cylinder was unlocked manually. • Pairing of the door open/close sensor and the upper unit is not working. • Detection of the door open/close sensor is not working. [Measure] • Turn on the auto-lock function. • If you performed unlocking operation manually, auto-lock function does not work. • Set the pairing again. • Check the condition of the door open/close sensor. For details, refer to the operation manual of the door open/close sensor.	P.21, P.33, P.40

* Cards other than FeliCa and Mifare (Standard 1K/4K), and FeliCa and Mifare cards in a different format.

■ Lost a card

Lost card	Room status	Measure	Referenced page
Construction card	Under construction	Delete the construction card which was lost. * To delete the construction card which was lost, specify the registration address of the lost construction card, and perform individual deletion. * If you do not know the registration address of the lost construction card, perform entire deletion of construction cards and register construction cards again.	P.51
	Vacant Occupied	There basically is no need to take a measure on it. Delete the construction card which was lost only when the device returns to the status under construction.	-
Vacancy card	Vacant	Delete the vacancy card which was lost. * To delete the vacancy card which was lost, specify the registration address of the lost vacancy card, and perform individual deletion. * If you do not know the registration address of the lost vacancy card, perform entire deletion of vacancy cards and register vacancy cards again.	P.59
	Occupied	After performing leaving operation, delete the vacancy card which was lost. (There is no need to take measures during occupancy.)	P.59, P.80
Registration card	Occupied	Delete the registration card which was lost using a registered registration card. * To delete the registration card which was lost, specify the registration address of the lost registration card, and perform individual deletion. * If you do not know the registration address of the lost registration card, perform entire deletion of registration cards and register registration cards again. * If the registration cards are entirely deleted (which means leaving operation is performed), user cards, user PINs, and administrator PIN are also entirely deleted at the same time. * If only one registration card is registered, operation for individual deletion is not possible. Perform entire deletion or leaving operation in that case. (It is recommended to always have 2 or more registration cards registered.)	P.65
User card	Occupied	Delete the user card which was lost using a registered registration card or master card. * To delete the user card which was lost, specify the registration address of the lost user card, and perform individual deletion. * If you do not know the registration address of the lost user card, perform entire deletion of user cards and register user cards again.	P.67

Lost card	Room status	Measure	Referenced page
Master Card	Under construction Vacant Occupied	Delete the master card which was lost using a registered master card. * To delete the master card which was lost, specify the registration address of the lost master card, and perform individual deletion. * If you do not know the registration address of the lost master card, perform entire deletion of master cards. Please note, however, that if the master cards are entirely deleted, leaving operation is performed, and registration cards, user cards, user PINs, and administrator PIN are also entirely deleted. Also, to newly register a master card again, you need to perform entire deletion of construction cards/PINs and vacancy cards/PINs. * If only one master card is registered, operation for individual deletion is not possible. Perform operation for entire deletion, or change the authentication mode and entirely delete the registration information of cards and PINs. (It is recommended to always have 2 or more master cards registered.)	P.57

- ⚠ In the case a PIN is leaked to a third party as well, change the PIN in the same way as the lost card case.
- ⚠ If there is a card reader in the communal area, operation for deletion is necessary at the card reader in the communal area separately.
- ⚠ If there is no lockable/unlockable card other than the lost card, and no PIN is registered (or you forgot the PIN), then locking/unlocking by the card lock is not possible.

● Forgot the PIN

Forgotten PIN	Measure	Referenced page
Construction PIN	Confirm the construction PIN. * For detailed procedure, refer to the "Confirmation of PIN" field of Construction PIN in "Quick Operation Guide",	P.95
Vacancy PIN	Confirm the vacancy PIN. * For detailed procedure, refer to the "Confirmation of PIN" field of Vacancy PIN in "Quick Operation Guide",	P.96
User PIN	Confirm the user PIN. Or register it again. - If two or more user PINs are registered: → Use the remaining user PIN to confirm the PIN. - If only one user PIN is registered and a registration card or a master card is registered: → Use a registration card or a master card to confirm the PIN. - If only one user PIN is registered and neither a registration card nor a master card is registered: → You can not confirm the PIN. (You can not change or delete PINs either. So take extra care in management of PINs.)	P.74
Administrator PIN	Perform leaving operation, delete the administrator PIN, and register an administrator PIN again. If performing leaving operation then registering an administrator PIN again: → Register a user PIN or a registration card, then register an administrator PIN. Otherwise, register a user card after registering a master card, and register an administrator PIN. * When leaving operation is performed, registration cards, user cards, and user PINs are also entirely deleted.	P.76, P.80

Specification

Name		1-lock spec: DTFL2B (T) (C) D01 / 2-lock spec: DTFL2B (T) (C) D02
Compatible mechanical lock		LA/LAF/LEF/LE/MA/LD ¹⁾ /DA/DAF/TE/BH ¹⁾ /Push-pull lock (PP/POM, etc.) * The product can not be installed if: - The existing product is on a long base seat. - The door surface has moles and other design elements, and the shape of the door and frame makes it difficult to install the product. * When installing on a timber door, please note the following points. - Additional door cutting may be necessary for inside and outside wiring. - Depending on the material and finish of the door surface, adhesive strength of the double-stick tape for attaching the outside reader unit may attenuate. - Depending on the material and finish of the door surface, the door surface may be damaged when peeling off the double-stick tape to remove the outside reader unit.
Compatible cylinder		MIWA Lock cylinder U9/UR/PR/JN
Door thickness range		33mm to 50mm (except for 41mm and 49mm)
Back set		51mm, 64mm
Dimensions	Reader unit	H192×W56×D39mm
	Control unit (upper)	H156×W78×D47mm (Thumb-turn unit: D71mm)
	Control unit (lower)	H156×W78×D47mm (Thumb-turn unit: D71mm)
Material and finish		ABS resin/paint finish, etc.
Authentication medium ²⁾		FeliCa ³⁾ , Mifare (Standard 1K/4K) ⁴⁾
Radio waves used	2-lock linking	Transmission: 2.4GHz (Bluetooth ⁵⁾ Low Energy)/13.56MHz
ID capacity		Construction card: 10 IDs, Vacancy card: 20 IDs, Registration card: 5 IDs, User card: 100 IDs, Master card: 10 IDs
		Construction PIN: 3 IDs, Vacancy PIN: 3 IDs, User PIN: 9 IDs, Administrator PIN: 1 ID
Right/left handed		None: Right/left handed type can be switched at site.
Power supplies	Inside unit	AA alkaline battery (LR6) x 4 (0°C - 50°C) (8 for 2-lock spec.) AA lithium battery (FR6) x 4 (-30°C - 50°C) (8 for 2-lock spec.) * Recommended battery: Those equivalent to Energizer battery LIT BAT AA
	Door open/close sensor	AAA alkaline battery (LR03) x 2
Emergency power supply		Rectangular 9V battery x 1 (2 for 2-lock spec.)
Battery Life		Approx. 1 year (10 times per day operation)
Durability		100,000 times of lock/unlock
Detectable distance to card ⁶⁾		FKL card: approx. 10mm, FL key head: contact
Operating temperature range	Standard specifications	0°C - 50°C
	Specifications for cold districts	-30°C - 50°C
Operating humidity range		20 - 80%RH
Waterproof performance	Outside	IPX5 ⁷⁾ Protection code: 5
	Inside	IPX4 ⁷⁾ Protection code: 4

¹⁾ When used in combination with LD lock or BH lock, durability of this RFID card lock may be degraded depending on the age of service of the lock. In such a case, it is recommended to replace the lock itself. (The durable life of a general lock defined by Japan Lock Manufacturer's Association (JLMA) is 10 years.)

²⁾ This products incorporates a high-frequency application which received type designation from the Ministry of Internal Affairs and Communications.

³⁾ "FeliCa" is a contactless IC card technology developed by Sony Corporation. "FeliCa" is a registered trademark of Sony Corporation.

⁴⁾ Mifare® is a registered trademark of NXP Semiconductors.

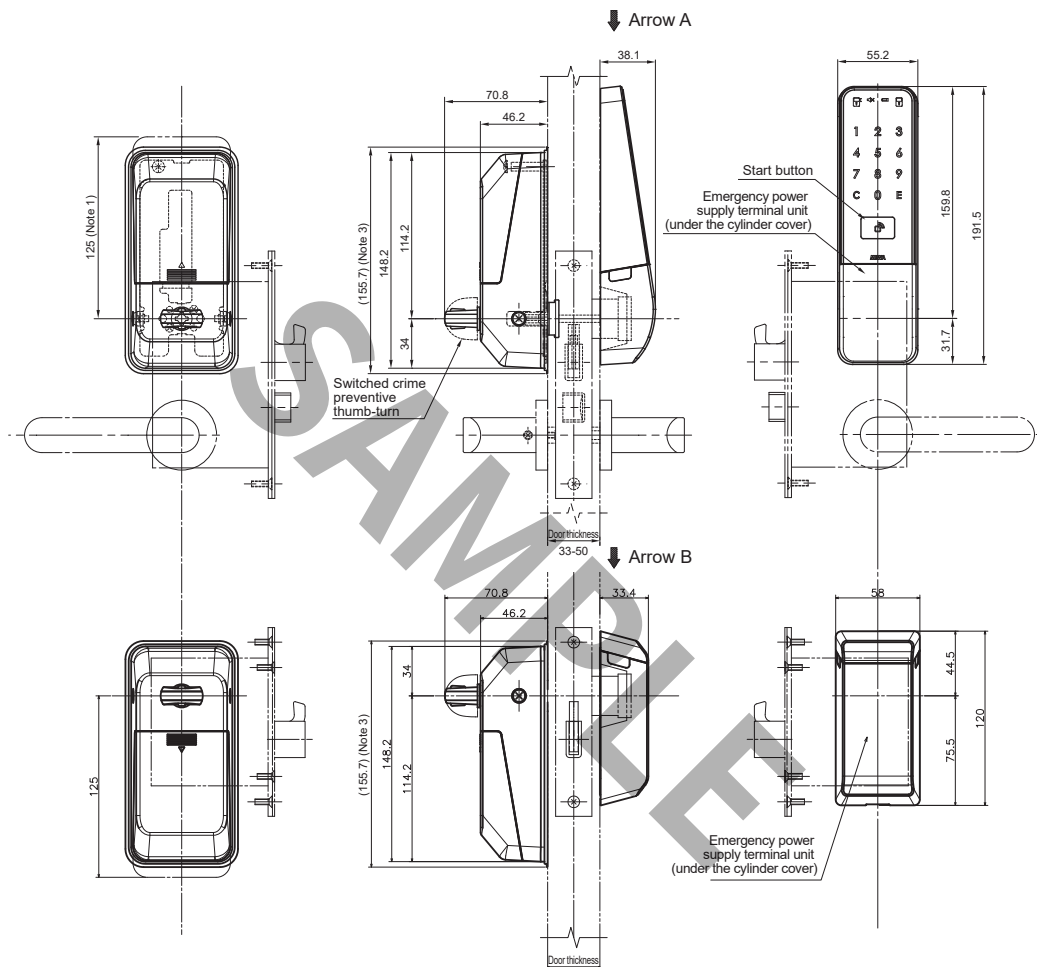
⁵⁾ Bluetooth and Bluetooth logo are the trademarks of Bluetooth SIG, Inc. USA. Any additional product names and corporate names indicated within this operation manual are the trademarks and registered trademarks of respective titleholders. The symbols ® and TM are abbreviated within the context of this document.

⁶⁾ Specification of the communication distance is guaranteed only for original cards issued by Miwa Lock. The communication distance defined in the specification may not be secured depending on the type of card.

⁷⁾ It indicates the level of protection defined by JIS C0920 (IEC 60529) "Ingress Protection code (IP code) provided by enclosures of electrical machines and equipments".

IPX4 indicates splash-proof type while IPX5 indicates jet-proof type.

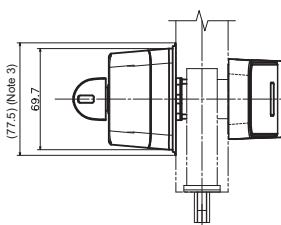
External view



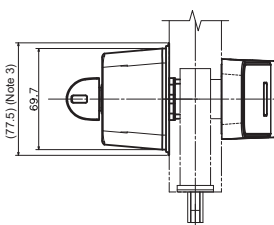
(Note 1) Since it may interfere with the door guard when opening and closing the cover, please be sure to check the dimensions assuming cover opening and closing in advance.

(Note 2) This drawing shows the case of installation to TE type.

(Note 3) It shows the dimension of the gasket.



View on arrow A



View on arrow B

Management ledger

■ Purpose and use of management ledger

Although DTFL2B Card Lock provides a function to confirm registration address of card keys, use of management ledger allows you to manage cards with more efficiency and absolute accuracy. So please make sure to record them on it.

If you lost a card key, you are recommended to perform the "enter deletion" operation and register all the card keys again.

The management ledger manages whose card key was registered with which address. If you lost a card key, you can use the management ledger to identify which address to delete.

If you run short of the management ledger pages, make copies of this page and use them.

Address number	Staff	Registered Year Month Day	Notes

Cleaning instruction

- For daily care, wipe them with soft clothes.
- When dirt on the device becomes conspicuous, moisten a soft cloth with a mild kitchen detergent and water solution, and squeeze it hard for wiping.
- Do not use any powder soap, polishing powder, benzine, thinner, wax, oil, or boiling water as they will damage the surface.
 - * If you use chemical wiping cloths, follow their cautionary statement.
- Do not clean the device in a way that allows water splash on it such as by rinsing the door in water. Doing so may let water penetrate into the device and cause failure.

SAMPLE

Warranty

Warranty period	2 years after date of delivery		
Product name	DTFL2B Card Lock		
Model	1-lock spec: DTFL2B(T) (C)D01 / 2-lock spec: DTFL2B(T) (C)D02		
Date of delivery	Year	Month	Day
Customer	Phone ()		
Address Name			
Dealer	Phone ()		
Address Name			

We thank you for purchasing our product.
 Warranty of our product is provided according to the provisions of the following policy.
 If a failure occurs within the warranty period, please contact the dealer stated on the left for repair service.
 This warranty card should be presented when requesting a repair service.
 Since this warranty card can not be reissued, please be sure to keep it at hand so it does not get lost.



MIWA LOCK CO., LTD.
 3-1-12, Shiba, Minato-ku, Tokyo 105-8510
 Phone: +81-3-4330-3069

- 1. Coverage of this warranty is provided as follows.
- (1) This warranty is applied to DTFL2B Card Lock 1-lock spec: DTFL2B(T)(C)D01 / 2-lock spec: DTFL2B(T)(C)D02 that are manufactured and marketed by MIWA Lock Co.
 - (2) This policy is effective only within Japan.
- 2. We will repair or replace the product if a failure occurs to it within the warranty period.
3. Even in the warranty period, the service may be provided at your expense if;
- (1) The failure or damage was caused by improper use.
 - (2) The product was altered or repaired by any third party other than us or our authorized service provider.
 - (3) The failure or damage was caused by a fire, chloride attack, gas damage, natural disaster, lightning strike, and other extraordinary natural phenomenon.
 - (4) The warranty card is not presented.
 - (5) The date of delivery and name are not stated in the warranty card.

MIWA LOCK CO., LTD.