

Z-Wave™ Smart Lock

FGT-0003

User's Guide

Rev. 1.02

MITSUMI ELECTRIC CO., LTD.

Introduction

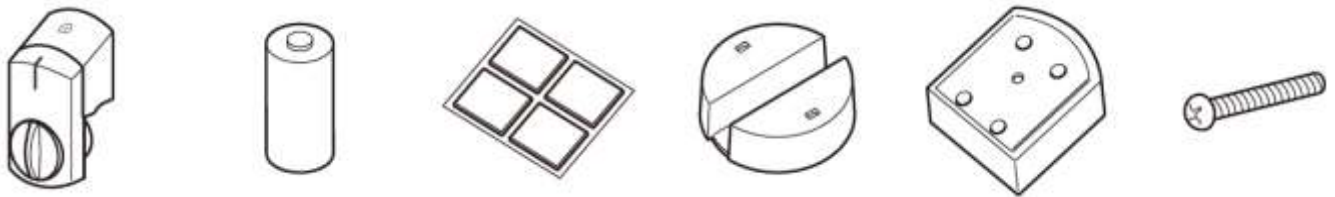
This product is an electronic door lock "FGT-0003" that supports Z-Wave Plus™ as standard. This is attached to the thumb turn and unlocked / locked using the controller.

This product is a security enabled Z-Wave Plus product that is able to use encrypted Z-Wave Plus messages to communicate to other security enabled Z-Wave Plus products.

This product must be used conjunction with a Security Enabled Z-Wave Controller in order to fully utilize all implemented functions. This product can be operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers. All mains operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

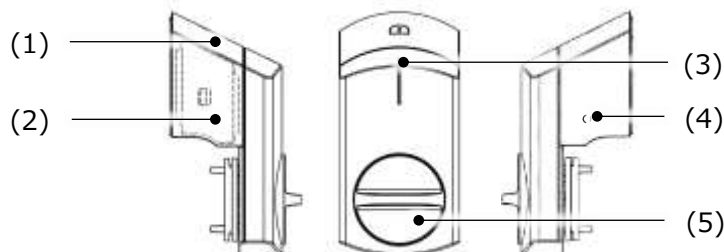
Inclusion can be via standard inclusion, SmartStart.

The Package contains



- ① Smart Lock FGT-0003
- ② Battery (CR123A Sample 4pcs)
- ③ Double-sided tape (for attaching Smart Lock 2pcs)
- ④ Thumb turn holder (S, M, L)
- ⑤ Spacer (S, M, L)
- ⑥ Screw (short, long)

The Package contains



- (1) Top cover
- (2) Battery box (inside the top cover)
- (3) LED indicator
- (4) Operation SW (inside the top cover)
- (5) Thumb turn knob

Installation

Please Work near the controller (within 1m).

■ SmartStart

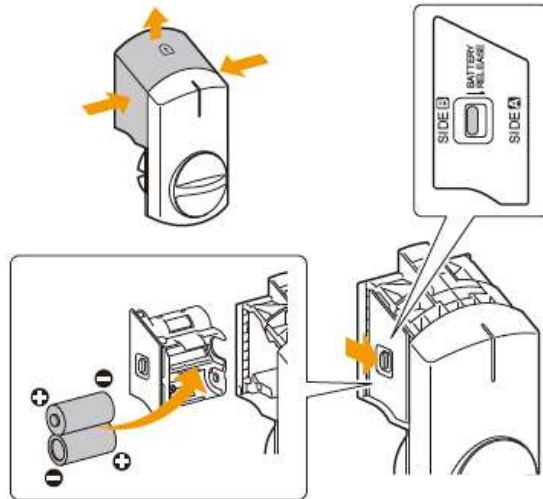
SmartStart enabled products can be added into a Z-Wave network by scanning the Z-Wave QR Code present on the product with a controller providing SmartStart inclusion. No further action is required and the SmartStart product will be added automatically within 10 minutes of being switched on in the network vicinity.

You can check the DSK code and QR code on the label by removing the Top cover of this product.

■ Installation by Operation SW

◇ Preparation of this product

1. Grasp both sides of the machine and slide the top cover upward to remove it. Move the knob in the direction of the arrow labeled "BATTERY RELEASE" to remove the battery holder. Insert four CR123A batteries.



2. When you insert the battery holder containing the batteries into the unit, the LED flashes blue and a confirmation sound sounds.

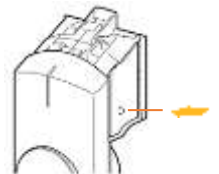
If the LED does not light up, remove the battery, check the insertion direction, and then insert it again.

If that doesn't work, try inserting a new battery.

(The battery that comes with this unit is a free sample. Battery life may be shorter than regular batteries on the market.)

◇ Connection with controller

1. Set the controller in "Add (Inclusion)" mode.
(For the operation procedure, see the instruction manual of the controller.)
2. Press the lock operation switch once with a thin stick and release it immediately.
The registration operation starts with a single beeping sound.
3. The connection is complete when the LED blinks from blue to green.
Check the connection using the controller or a dedicated application.



Setting the rotation direction of the thumb turn knob

Set the lock position and unlock position of the thumb turn knob.

■ Insert the batteries

Remove the top cover, remove the battery holder, and insert four batteries.

Attach the battery holder with the battery inserted to the lock body. The LED flashes green with a confirmation sound. Leave the top cover removed.

* Be sure to use 4 batteries. Also, do not use batteries that are in use and new batteries together.

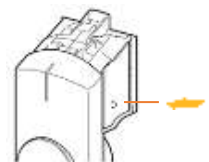
■ Setting the thumb turn knob rotation direction

◇ Start setting

Press and release the operation switch on the left side of the lock body with a thin stick for 5 seconds or longer.

The LED will light up light blue once and long beep.

After that, the LED will blink light blue.



◇Unlocking position setting

Turn the thumb turn knob of this unit to the unlocked position.

Press and release the operation switch on the left side of the lock body with a thin stick for 5 seconds or longer.

The LED will red once and beep twice. After that, the LED will blink light blue.

◇Locking position setting

Turn the thumb turn knob of this unit to the locked position.

Press and release the operation switch on the left side of the lock body with a thin stick for 5 seconds or longer.

The LED will blue once and beep once. After that, the LED will blink light blue.

◇Positioning

With the thumb turn knob locked, use a thin stick to press and release the operation switch on the left side of the lock body for 5 seconds or longer.

The LED will light blue once and beep three times.

● Attach the top cover and the setting is complete. You can unlock and lock with the controller.

Other operations

■ Remove (Excursion)

1. Set the controller in "Remove (Exclusion)" mode.

2. Remove the top cover and press the lock operation switch once with a thin stick and release it immediately. The LED turns yellow once with a beeping sound.

3. The disconnection is complete when the LED blinks blue. Check the Exclusion using the controller or the dedicated application.

※ After exclusion, remove the battery when not in use and replace the battery holder and top cover.

■ Factory Reset

Remove the top cover, press and release the operation switch on the left side of the lock body with a thin stick for 5 seconds or longer. The Factory Reset is complete when the LED blinks blue.

Please use this procedure only in the event that the primary controller is lost. All the settings and the controller information are cleared to return to the factory default.

※ The Factory Reset is not possible unless the rotation direction of the thumb turn knob is set.

※ After the Factory Reset, remove the battery when not in use and replace the battery holder and top cover.

Z-Wave Overview

Z-Wave+ Product Info

•Manufacturer:	MITSUMI
•Z-Wave Device Type:	Door Lock Keypad
•Z-Wave Role Type:	Listening Sleeping Slave (LSS)
•Product ID:	0x0001
•Product Type ID:	0x0011

Supported Command Classes

Command Class List (Security: None)

•COMMAND_CLASS_ZWAVEPLUS_INFO	V2
•COMMAND_CLASS_TRANSPORT_SERVICE	V2
•COMMAND_CLASS_SECURITY	V1
•COMMAND_CLASS_SECURITY_2	V1
•COMMAND_CLASS_SUPERVISION	V1

Command Class List (Security: S2)

•COMMAND_CLASS_ASSOCIATION	V2
•COMMAND_CLASS_ASSOCIATION_GRP_INFO	V3
•COMMAND_CLASS_BATTERY	V1
•COMMAND_CLASS_DEVICE_RESET_LOCALLY	V1
•COMMAND_CLASS_BASIC	V2
•COMMAND_CLASS_DOOR_LOCK	V4
•COMMAND_CLASS_FIRMWARE_UPDATE_MD	V5
•COMMAND_CLASS_INDICATOR	V3
•COMMAND_CLASS_MANUFACTURER_SPECIFIC	V2
•COMMAND_CLASS_POWERLEVEL	V1
•COMMAND_CLASS_VERSION	V3
•COMMAND_CLASS_CONFIGURATION	V4

ASSOCIATION & ASSOCIATION GROUP INFORMATION

Group 1 is the Lifeline group. It can contain up to 5 nodes. The command classes reported to the Lifeline are as follows.

- BATTERY REPORT
- DOOR LOCK OPERATION REPORT
- DOOR LOCK CONFIGURATION REPORT
- DEVICE RESET LOCALLY NOTIFICATION
- INDICATOR REPORT
- USER CODE REPORT

BATTERY

The Battery Get request can be used to get the status of the battery.

DEVICE RESET LOCALLY

When the Z-Wave module is reset it sends a report to tell the controller it has been reset.

This product is reset by pressing and holding the operation switch for 5 seconds.

Please use this procedure only when the primary controller is missing or otherwise inoperable.

BASIC

Basic Set is used to lock and unlock this product. See table to see how the Door Lock Mode parameter affects the lock.

	Unlock	Lock
Value	0x00	0xFF

This product reports the Lock status with Basic Report.

	Unlock	Lock	Unknown
Current Value	0x00	0xFF	0xFE
Target Value	0x00	0xFF	0xFE
Duration	0x00		

※Set the direction of rotation of the thumb turn knob before executing this command class.

DOOR LOCK

Door Lock Operation Set is used to lock and unlock this product. See table to see how the Door Lock Mode parameter affects the lock.

	Unlock	Lock
Door Lock Mode	0x00	0xFF

This product reports the Lock status with Door Lock Operation Report.

	Unlock	Lock
Current Door Lock Mode	0x00	0xFF
Handles Mode	0x00	0x00
Door Condition (Only Bit 0)	0x02	0x00
Lock Timeout Minutes	0xFE	0xFE
Lock Timeout Seconds	0xFE	0xFE
Target Door Lock Mode	0x00	0x00
Duration	0x00	0x00

※Set the direction of rotation of the thumb turn knob before executing this command class.

FIRMWARE UPDATE META DATA

This product supports firmware update of the Z-Wave module over the air.

Firmware ID = 0x0000

INDICATOR

You can use the Indicator Set request to make the LED blink.

The corresponding Indicator ID and Property ID are as follows.

Indicator ID	0x50	Node Identify
Property ID	0x02	Turning the indicator On or Off

MANUFACTURER SPECIFIC

Upon receiving a Manufacturer Specific Get request, it returns a Manufacturer Specific Report

	Value	Comment
Manufacturer ID	0x0112	MITSUMI
Product Type ID	0x0011	FGT Lock Series
Product ID	0x0001	Lock Vol.1

POWERLEVEL

Can be used under inclusion to test signal strength from the controller and to the device.

VERSION

This Command Class is used to get information about which version of the different command classes this product supports and the software version of this product.

CONFIGURATION

Set and check the configuration parameters to control this product.

Parameter Number 1

Configuration Set request sets the sets the buzzer status.

Size = 1

Configuration Value1 = 0x00 ... Buzzer disable
0x01 ... Buzzer enable

When the Default parameter is set to 1, the buzzer is set to enable.

Configuration Get request reports the buzzer status.

Size = 1

Configuration Value1 = 0x00 ... Buzzer disable
0x01 ... Buzzer enable

Parameter Number 3

Configuration Set request sets the battery alert level. (The default value is 28%.)

Size = 1

Configuration Value1 = 0x01 ... 1%
...
0x32 ... 50%

Configuration Get request reports the battery alert level.

Configuration Value1 = 0x01 ... 1%
...
0x32 ... 50%