



Smart Door Lock

ML2

# Programming Instructions

EN VER 1.0

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 All design and specifications are subject to change without notice

Search "Alfred Home" in either the Apple App Store or Google Play to Download



**Alfred Home**



# STATEMENT

## **FCC Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**FCC Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

## **FCC Radiation Exposure Statement**

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

## WARNING

Failure to follow the below instructions could result in damage to the product and void the factory warranty. The accuracy of the door preparation is critical to allow proper functioning and security of this Alfred Product.

Misalignment of the door prep and lock can cause performance degradation and hinder the security functions of the lock.

**Finish Care:** This lockset is designed to provide the highest standard of product quality and performance. Care should be taken to ensure a long-lasting finish. When cleaning is required use a soft, damp cloth. Using lacquer thinner, caustic soaps, abrasive cleaners or polishes could damage the coating and result in tarnishing.

**IMPORTANT: Do not install batteries until the lock is completely installed on door.**

1. Master PIN Code: Can be 4-10 Digits and should not be shared with other users. Default Master Pin code is "12345678". Please update once installation is completed.
2. User PIN Code Numbers slots : User Pin Codes can be assigned number slots between (1-250), it will be assigned automatically then read by voice guide after enrollment.
3. User Pin Codes: Can be 4-10 digits and can be set up through Master Mode or Alfred Home App.
4. Access Card Number slots: Access card can be assigned number slots between (1-250), it will be assigned automatically then read by voice guide after enrollment.
5. Access Card: Only Mifare 1 type card is supported for ML2. It can be set up through Master Mode or Alfred Home App.

## INTRODUCTION

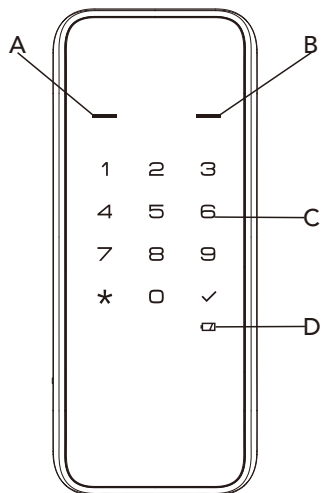
The Alfred ML2 door lock combines a modern look with durability that is perfect for multi-family property, small business office space, retail space, hotel, airport, restroom, or mixed-use commercial building. It is easy to use and install, and allow you to manage access with up to 250 unique PIN codes and 250 access cards.

You can program, control, monitor your door lock activities in Alfred Home app, door position sensor detects the position of the door, open or closed. It also can be connect with Smart Home&Security system via Z-wave (Module sold separately) or Zigbee(Module sold separately).

It drives the deadbolt or clutch to lock and unlock the door. Inside lever or knob is always free for immediate exit.

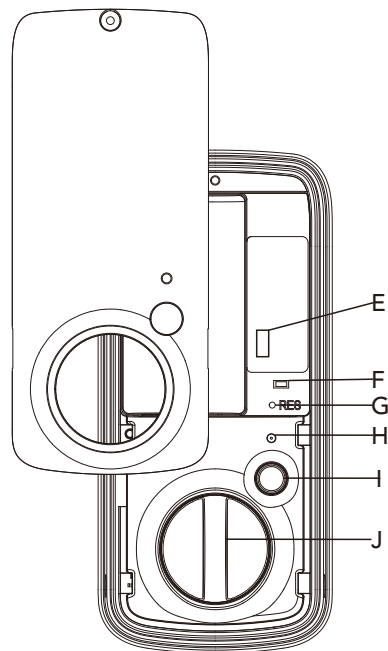
# SPECIFICATIONS

**Front assembly**



- A:** Status indicator(Red)
- B:** Status indicator(Green)
- C:** Touchscreen keypad
- D:** Low battery indicator

**Back assembly**



- E:** Wireless module port
- F:** Handing switch
- G:** Reset button
- H:** Internal indicator
- I:** Multi-functional button
- J:** Thumb turn

## DEFINITIONS

### **Master Mode:**

The Master Mode can be entered by entering “\*\*+Master PIN Code+#” to program the lock.

### **Master PIN code:**

The Master PIN Code is used for programming and for feature settings.



CAUTION

**The default Master PIN Code must be changed after installing.**

**The Master PIN Code will also operate the lock in Away Mode and Privacy Mode.**

### **Simple PIN Code Rule**

For your security, we have set up a rule to avoid simple pin codes that can easily be guessed. Both the Master PIN Code and User PIN Codes need to follow these rules.

Rules for Simple Pin Code:

1. No consecutive numbers - Example: 123456 or 654321
2. No duplicated numbers - Example: 1111 or 333333
3. No other existing Pins - Example: You cannot use an existing 4 digit code within a separate 6 digit code

### **Manual Locking**

The lock can be locked by pressing and holding any key for 1 second from outside or using thumb turn from inside or pressing multiple function button on interior assembly from inside.

### **Centered Control Platform**

The lock can be integrated with Centered Control Platform by using a wireless module(Sold separately), the ML2 support Z-wave and Zigbee modules. More information please refer to instruction of optional wireless module.

### **Auto Re-lock**

After lock has been successfully unlocked, it will automatically re-lock after a preset time. This feature can be turned on through the Alfred Home App or through option #4 in Master Mode menu at the Lock. This feature comes disabled in default settings. Auto re-lock time can be set to 30secs, 60secs, 2mins, and 3mins.

## DEFINITIONS

### **Away(Vacation) Mode**

This feature can be enabled in Master Mode or through Zigbee module(Sold separately). It restricts all User PIN Code accesses, Bluetooth Keys is disabled too.

The feature is designed to be used when all occupants are out of the house and no entry into the home should be made. Away(Vacation) Mode will be disabled when user disable the feature on centered control platform, or after entering the Master PIN code at the lock.

If someone unlocks the door by using the inside thumb turn or key override, the lock will sound an audible alarm for 1 min. Additionally when the alarm is activated, it will send a notification message to the account holders to notify them of the Alarm via Zigbee centered control platform.

### **Silent Mode**

When enabled, Silent Mode shuts off key tone playback for use in quiet areas. Silent Mode can be turned On or Off in Master Mode Menu Option #5 at the lock or through Language settings on the Alfred Home App.

### **Keypad Lockout**

The lock will go into KeyPad Lockout for a default of 5 mins after the wrong code entry limit has been met (10 attempts). Once the unit has been placed in shutdown mode due to the limit being reached the screen will flash and will prevent any keypad digits from being entered until the 5 min time limit has expired. The Wrong code entry limit resets after a successful Pin code entry has been entered or the door is unlocked from inside thumb turn or by Alfred Home App.

### **Status LED**

Located on Exterior Assembly. Green LED will illuminate when the door is unlocked or for a successful settings change. Red LED will illuminate when the door is locked or when there is an error in settings input.

### **User PIN code**

The User PIN Code operates the Lock. They can be created between 4 and 10 digits in length but must not break simple pin code rule. You can assign a User Pin code to specific members within the Alfred Home App. Please make sure to record set user Pin codes as they are **NOT** visible within Alfred Home App for security once set. Maximum Number of user PIN codes is 250.

## DEFINITIONS

### **Access Card**

The Access Card operates the Lock. They can be added on the lock in Master Mode Menu, and deleted in Master Mode Menu or in Alfred Home App. You can assign an Access Card to specific members within the Alfred Home App. Maximum Number of Access Card is 250.

### **Privacy Mode(Inside Deadlock)**

Enable by holding the Multi-function button on the Back assembly of lock for 3 Seconds. Enabling this feature restricts ALL accesses, including Master PIN Code, User PIN Code, Alfred Home App Access and Wireless accesses(Zigbee or Z-wave). This feature is designed to be used when the User is home and within the house but wants to restrict any other users from being able to unlock the door, for example when sleeping at night once everyone that is supposed to be home is within the house. The feature will disable automatically by unlocking door using thumb turn or override key.

### **Bluetooth Energy Saving Mode:**

Bluetooth Energy Saving Feature can be programmed in Settings options on the Alfred Home App or in Master Mode Menu at the Lock.

Enabling Energy Saving Mode - means Bluetooth will broadcast for 2min after keypad lights turn off on Touchscreen Panel, after the 2min expires the Bluetooth feature will go into energy savings Sleep mode to reduce some battery draw. The front panel will need to be touch to wake up the lock so the Bluetooth connection can be re-established.

Disabling Energy Saving Mode - means Bluetooth will stay active continuously to create quicker connection If user has enabled One Touch Unlock Feature in Alfred Home App, Bluetooth must be Enabled as the One Touch feature requires constant Bluetooth connect availability to function.

### **Reboot button**

In the case where your lock becomes unresponsive, the lock can be restarted by pressing the Reboot Button on the Front Assembly (see diagram on Page 14 for location) This will keep all lock settings in place but will restart the lock.

### **Reset button**

After Lock as been Reset, all User Credentials and settings will be deleted and returned to factory settings. Locate the Reset button on the Interior Assembly underneath Battery Cover and follow Reset instructions on Page 15 (see diagram on Page 3 for location). Connection with Alfred Home App will remained, but will remove connection with Centered Control Platform.



## FACTORY DEFAULT SETTINGS

Settings	Factory Defaults
Master PIN Code	12345678
Auto Re-lock	Disabled
Speaker	Enabled
Wrong Code Entry Limit	10 times
Shutdown Time	5 mins
Bluetooth	Disabled(Energy saving)
Language	English

## LOCK OPERATIONS

### -Enter Master Mode

- 1.Touch Keypad screen with your hand to activate lock. (Keypad will illuminate)
- 2.Press "\*" twice
- 3.Enter Master PIN Code and followed by "√"

### -Change Default Master PIN code

**Changing Master PIN Code can be programmed in Settings options on the Alfred Home App or in Master Mode Menu at the Lock.**

1. Enter Master Mode
2. Enter "1" to select Modify Master Pin Code.
3. Enter NEW 4-10 Digit Master PIN Code followed by "√"
4. Repeat Step 3 to confirm NEW Master PIN Code



#### CAUTION

User must change Factory Set Master Pin Code before changing any other menu Settings when first installed. Settings will be locked until this has been completed. Record Master Pin Code in a safe and secure location as the Alfred Home APP will not show User Pin Codes for security purposes after it has been set.

# LOCK OPERATIONS

## -Add User PIN Codes

**User PIN Codes can be programmed in Settings options on the Alfred Home App or in Master Mode Menu at the Lock.**

Master Mode Menu Instructions:

1. Enter Master Mode.
2. Enter "2" to enter Add User menu
3. Enter "1" to add User PIN code
4. Enter New User PIN Code followed by "√"
5. Repeat step 4 to confirm PIN Code.
6. To continue adding new users, repeat steps 4-5.



CAUTION

When Registering User Pin Codes, the codes must be entered within 10 Seconds or the Lock will time out. If you make a mistake during the process, you can press the "\*" once to go back to previous menu. Before entering New User PIN code, lock will announce how many User PIN codes already exist, and User PIN code number you are registering.

## -Add Access Card

**Access Card can be added in Master Mode Menu at the Lock only.**

Master Mode Menu Instructions:

1. Enter Master Mode.
2. Enter "2" to enter Add User menu
3. Enter "3" to add Access Card
4. Swipe Access Card
5. To continue adding new Access Card, repeat steps 4



CAUTION

Before adding new Access Card, lock will announce how many Access Card already exist, and Access Card number you are registering.

# LOCK OPERATIONS

## -Delete User PIN code

**User PIN Codes can be programmed in Settings options on the Alfred Home App or in Master Mode Menu at the Lock.**

Master Mode Menu Instructions:

1. Enter Master Mode.
2. Enter "3" to enter delete User menu
3. Enter "1" to delete User PIN Code
4. Enter User PIN code number or User PIN code followed by "√"
5. To continue deleting User PIN code, repeat steps 4

## -Delete Access Card

**Access Card can be deleted in Settings options on the Alfred Home App or in Master Mode Menu at the Lock.**

Master Mode Menu Instructions:

1. Enter Master Mode.
2. Enter "3" to enter delete User menu
3. Enter "3" to delete Access Card.
4. Enter Access Card number followed by "√", or swipe Access card.
5. To continue deleting Access Card, repeat steps 4

## -Auto re-lock settings

**Auto Re-Lock Feature can be programmed in Settings options on the Alfred Home App or in Master Mode Menu at the Lock.**

Master Mode Menu Instructions:

1. Enter Master Mode
2. Enter "4" to enter Auto Re-lock menu
3. Enter "1" to Disable Auto Re-lock(**Default**)  
or Enter "2" to Enable Auto Re-lock and set the re-lock time to 30 secs.  
or Enter "3" to set the re-lock time to 60secs  
or Enter "4" to set the re-lock time to 2mins  
or Enter "5" to set the re-lock time to 3mins

# LOCK OPERATIONS

## -Silent Mode/Language Settings

**Silent Mode or Language Change Feature can be programmed in Settings options on the Alfred Home App or in Master Mode Menu at the Lock.**

Master Mode Menu Instructions:

1. Enter Master Mode
2. Enter "5" to enter Languages Menu
3. Enter 1-5 to Enable a select voice guide language  
(see language choices in table to the right)  
or Enter "6" to enable Silent Mode

### Languages

- 1.English
- 2.Spanish
- 3.Portuguese
- 4.French
- 5.Chinese

## -Enable Away Mode

**Away Mode Feature can be enabled in Master Mode Menu at the lock.**

Master Mode Menu Instructions:

1. Enter Master Mode.
2. Enter "6" to enable Away Mode.



**CAUTION**

In Away Mode, all User PIN codes will be disabled temporarily. Device can only be unlocked by Master PIN Code or Zigbee. Away Mode will be disabled automatically once Master PIN Code or Zigbee Centered Control Platform. If someone unlocks the door by using the inside thumb turn or key override, the lock will sound an audible alarm for 1 min. Additionally when the alarm is activated, it will send a notification message to the account holders to notify them of the Alarm via Zigbee centered control platform.

# LOCK OPERATIONS

## -Bluetooth Settings(Power Save)

**Bluetooth Setting (Power Save) Feature can be programmed in Settings options on the Alfred Home App or in Master Mode Menu at the Lock.**

Master Mode Menu Instructions:

1. Enter Master Mode
2. Enter "7" to enter Bluetooth Settings Menu
3. Enter "1" to Enable Bluetooth - means Bluetooth will stay active continuously to create quicker connection or Enter "2" to Disable Bluetooth - means Bluetooth will broadcast for 2min after keypad lights turn off on Touchscreen Panel, after the 2min expires the Bluetooth feature will go into energy savings Sleep mode to reduce some battery draw. The front panel will need to be touched to wake up the lock so the Bluetooth connection can be re-established.



**CAUTION**

If user has enabled One Touch Unlock Feature in Alfred Home App, Bluetooth must be Enabled as the One Touch feature requires constant Bluetooth connect availability to function.

## -Network Module(Z-wave or Zigbee) Pairing Instructions (Add on Modules Required sold separately)

**Z-Wave pairing or other Network Settings can ONLY be programmed through the Master Mode Menu at the Lock.**

Master Mode Menu Instructions:

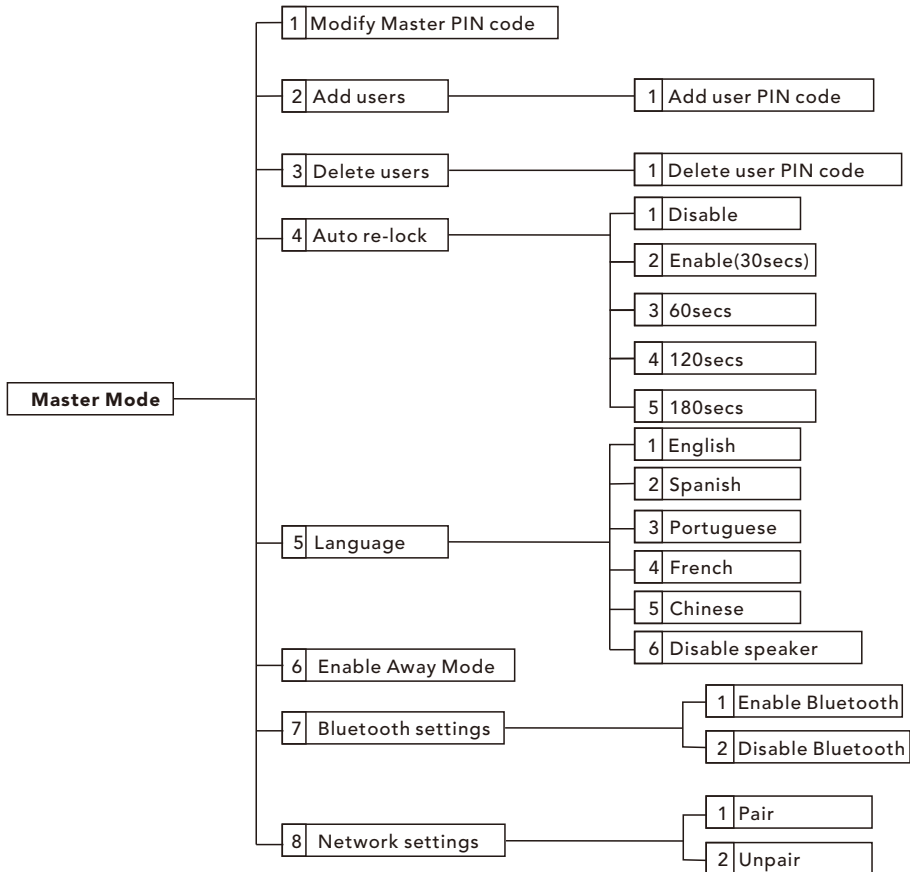
1. Follow user guide of your Smart Hub or Network Gateway to enter Learning or Pairing Mode
2. Enter Master Mode
3. Enter "8" to enter Network Settings
4. Enter "1" to enter Pairing  
or "2" to Unpair
5. Follow steps on your 3rd party interface or Network controller to sync Network Module from lock.



**CAUTION**

Optional Alfred Z-Wave or other Network Module is required to enable this feature (sold separately). If the Lock is connected to a network controller, it is recommended that all programming of PIN Codes and settings is completed through 3rd party user interface to ensure stable communication between lock and controller is maintained.

# PROGRAMMING TREE FOR MASTER MODE MENU



# HOW TO USE

## Unlock the door

### 1. Unlock the door from outside

- Use PIN code key



- Place palm over lock to wake up the keypad.
- Input User PIN Code or Master PIN Code and press "√" to confirm.

### 2. Unlock the door from inside

- Manual thumb turn



Turn the thumb turn on Back Assembly (Thumb turn will be in the vertical position when unlocked)

## Lock the door

### 1. Lock the door from outside

#### Auto Re-lock Mode

If Auto Re-Lock Mode is enabled, the latch bolt will be extended and locked automatically after approx. 30 seconds after being unlocked or door closed.

#### Manual Mode



Press and hold any key on keypad for 1 second.

### 2. Lock the door from inside

#### Auto Re-lock Mode

If Auto Re-Lock Mode is enabled, the latch bolt will be extended and locked automatically after approx. 30 seconds after being unlocked.

#### Manual Mode



In Manual Mode, the device can be locked by pushing the Multi-Function button on the Back Assembly or by turning the thumb turn. (Thumb turn will be in the horizontal position when locked)

# HOW TO USE

## Enable Privacy Mode

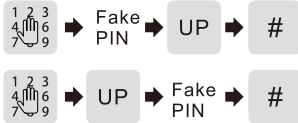


To Enable Privacy Mode (Inside Deadlock), Push and HOLD the Multi-function button on Back Assembly for 3 Seconds.

When Privacy mode is enabled, it restricts ALL accesses, including Master Pin Code, User PIN Code, Access Card and Digital Bluetooth Keys sent through APP.

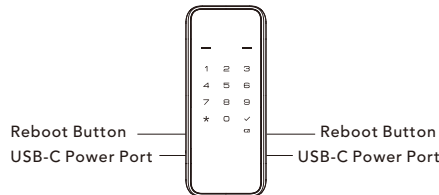
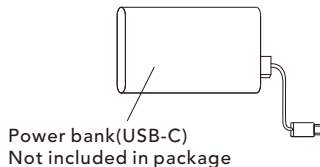
This feature will be disabled automatically after unlock the device with the lever handle from the inside or override key from the outside.

## Use Visual PIN Protection



User can prevent PIN code exposure from strangers by entering additional random digits before or after their User Pin Code to unlock their device. In both cases the User Pin code is still intact but to a stranger it cannot easily be guessed.

## Use Emergency USB-C Power Port and Reboot Button



In the scenario where the Locks batteries are completely worn out and the lock will no longer turn on, you can connect any standard USB-C power banks to the Emergency Power port located on both side of the Touch screen Keypad. Connect with a USB-C cable to power lock to unlock latch bolt to get inside so you can charge your rechargeable battery.

In the scenario where the lock freezes or becomes unresponsive, the lock can be restarted by pressing the reboot button located on both side of the touch screen lock next to the Emergency USB-C Power port. This will keep all lock settings in place but will restart the lock.



# HOW TO USE

## Reset to factory default settings

**Must be completed on Lock and cannot be done through the Alfred Home APP**

1. Open the door and keep the lock in "unlock" status
2. Open battery box and find the reset button.
3. Use a thin object to press and hold the reset button.
4. Keep holding the reset button and remove a battery from battery box then replace it.
5. Keep holding the reset button down until you hear the lock beep (Can take up to 10 seconds).

**CAUTION:** Reset operation will delete all user setting and credentials, Master PIN code will be restored to default 12345678.

For support, please reach out to: **support@alfredinc.com**  
You can also reach us at **1-833-4-ALFRED (253733)**

[www.alfredinc.com](http://www.alfredinc.com)

## ISED Statement

English: This device complies with Part 15 of the FCC Rules [and contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS standard(s)]. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The digital apparatus complies with Canadian CAN ICES-3 (B)/NMB-3(B).

French: L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

l'appareil numérique du ciem conforme canadien peut - 3 (b) / nmb - 3 (b).

This device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS 102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

cet appareil est conforme à l'exemption des limites d'évaluation courante dans la section 2.5 du cnr - 102 et conformité avec rss 102 de l'exposition aux rf, les utilisateurs peuvent obtenir des données canadiennes sur l'exposition aux champs rf et la conformité.

This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.

### RF Exposure Statement

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

L'appareil a été évalué pour répondre aux exigences générales d'exposition aux radiofréquences. L'appareil peut être utilisé en condition d'exposition portable sans restriction.