SENSE
Programming Guide

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ASSA ABLOY
Opening Solutions

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Electro-mechanical RFID Cabinet Lock

USER OPERATION
Up to 60 cards can be added to the lock. These cards can be assigned to the lock as either User cards, Janitor Cards or Master Cards.

A. PRIVATE MODE
In Private Mode the lock is set to work with the same user card(s). These cards needs to be previously registered to this specific lock. In Private Mode up to 5 Master Cards and 55 User Cards can be added.

1: To open the lock, simply present your registered User Card and open the door. If the handle isn't turned, the lock will automatically re-lock after 4 seconds.

2: To close, simply turn the handle into locked position and the lock will automatically lock.

B. PUBLIC MODE
In Public Mode the lock is set to work with any Compatible Card that is presented to the lock. This will temporarily register this as a User Card in the lock. Upon opening the lock with this card, the lock will remove this as the User Card, and any other Compatible Card can now operate the lock. In Public Mode up to 5 Master Cards and 54 Janitor Cards can be added.

1: To close, turn the handle into locked position and present a Compatible Card. This will lock the lock. Other cards cannot now operate the lock.

2: To open, present your Registered Card to the lock. Any other card can now operate the lock.

MASTER CARD OPERATION
The Master Cards can open the lock in both modes. In Public Mode, opening with the Master Card, will also erase any Registered Card from the lock and leave the lock in open position.

JANITOR CARD OPERATION
The Janitor Cards can open the lock in Public Mode. Different to the Master Card, the Janitor Card will not erase the registered User Card. When opening with the Janitor Card the lock will automatically re-lock.

FACTORY RESET
Insert a needle or clip through the hole on the back and press for 2 seconds. This will restore the lock into Factory Mode, see lock setup for different options on how to reprogram the lock into desired configuration. In Factory Modes the quick setup options are also available.

LOW BATTERY
When the battery level drops below 10%, 3 red flashes will occur after opening the lock. Please change batteries at this point.

EXTERNAL POWER SUPPLY
Use external 5-pin USB power if the battery is dead and the lock does not respond at all
(Use with smartphone/laptop charger).

PROGRAMMING CARDS
The following cards are used when programming the locks

① Add / Remove User Cards

② Add / Remove Master Card Add /

③ Remove Janitor Card

④ Switch between Private and Public Mode

© Copying Card

BASIC SETUP

When the lock is in Factory Mode (on delivery and after factory reset) and the battery is entered the following options on how to deploy the lock is available.

A: QUICK SETUP OF MASTERCARD AND USER CARDS FOR USE IN PRIVATE MODE

First present a Compatible Card which will become a new Master Card. Then within 5 seconds present a second card which will be registered as the first User Card. Continue to present cards within 5 seconds after the previous registration to add additional User Cards. Then wait 5 seconds and the lock will go into Private Mode. Further programming is then done by using the Programming Cards.

The sequence below describes an example of how to add one Master Card (1) and two User Cards (2 and 3). Up to 50 User Cards can be registered to each lock.

Enter batteries [1] ● (Within five seconds) [2] ● (Within five seconds) [3] (Wait five seconds) ● ● ●

B: QUICK SETUP OF MASTERCARD FOR USE IN PUBLIC MODE

Present first Compatible Card which will become the Master Card. Then wait 5 seconds and the lock will go into Public Mode. Further programming is then done by using the Programming Cards.

The sequence below describes an example of how to add one Master Card (1) for use in Public Mode.

Enter batteries: [1] (wait five seconds) ● ● ●

C: USING THE COPYING CARD

C1: Read the setup of a programmed lock and record it to the Copying Card

[©] ● [♜] ● [©] (During reading) ● ● ● ● ● (After reading completed)

Ex: Present a Copying Card followed by the Master Card and present the Copying Card again for reading the setup of the lock.

NOTE1: In private mode, any user cards registered on the first locks will copied to other locks. Please see document *Copy Card Function Guide* for more information on how to use the copy card.

NOTE 2: The card needs to be cleared before beginning this procedure, see special commando 34. On delivery, the card is cleared.

C2: Programming locks with the Copying Card into Public Mode

A lock in factory mode will read the setup on the Copying Card. This can be repeated for as many lock as required.

Enter batteries: [©] ● ● ● ● (During programming) ● ● ● ● ● (After complete programming)

Further programming on this lock is now done with the programming cards. See Lock Programming.

LOCK PROGRAMMING

1: USER CARDS (ONLY IN PRIVATE MODE)

1A: Add 1 User Card

① ● ♟ ● ♟ ● (Wait 5 seconds or touch Master Card) ● ● ●

Ex: Present Programming Card 1 followed by a Master Card. Then present a Compatible Card to register this as a new User Card.

1B: Delete 1 User Card

① ● ♟ ● ♟ ● (Wait 5 seconds or touch Master Card) ● ● ●

Ex: Present Programming Card 1 followed by a Master Card. Then present a registered User Card to remove this from the lock.

1 C: Add Multiple User Cards

① ● ♟ ● ♟ ● (Within five seconds) ♟ ● (Within five seconds) ♟ ●
(Continue to present cards or wait 5 seconds to end programming) ● ● ●

Ex: Present Programming Card 1 followed by a Master Card. Then present multiple registered User Cards to remove them from the lock.

1D: Delete Multiple User Cards

① ● ♟ ● ♟ ● (Within five seconds) ♟ ● (Within five seconds) ♟ ●
(Continue to present cards or wait 5 seconds to end programming) ● ● ●

Ex: Present Programming Card 1 followed by a Master Card. Then present multiple registered User Cards to remove them from the lock.

1E: Delete all User Cards

① ● ♟ ● ① ● ● ● ● ●

Ex: Present Programming Card 1 followed by a Master Card. Then present Programming Card 1 again to remove all User Cards from the lock. The lock will stay in open position until a new User Card is added.

2: MASTER CARDS

2A: Add 1 Master Card

② ● ♟ ♟ ● (Wait 5 seconds or touch Master Card) ● ● ● ●

Ex: Present Programming Card 2 followed by a Master Card. Then present a Compatible Card to register this as a new Master Card.

2B: Delete 1 Master Card. Any Master Card can delete any other Master Card that is registered to the lock. A Master Card cannot delete itself thus securing that always one Master Card remains registered.

② ● ♟ ● ♟ ● ((Wait 5 seconds or touch master card) ● ● ● ●

Ex: Present Programming Card 1 followed by a Master Card. Then present another registered Master Card to remove this from the lock.

2C: Add multiple Master Cards

② ● ♟ ● ♟ ● ((Within five seconds) ♟ ● (Within five seconds) ♟ ● (Continue to present cards or wait 5 seconds to end programming) ● ● ● ●

Ex: Present Programming Card 2 followed by a Master Card. Then present multiple Compatible Cards to register these as new Master Cards.

2D: Delete multiple Master Cards. Any Master Card can delete any other Master Cards that is registered to the lock. A Master Card cannot delete itself thus securing that always one Master Card remains registered.

② ● ♟ ● ♟ ● (Within five seconds) ♟ ● (Within five seconds) ♟ ● (Continue to present cards or wait 5 seconds to end programming)

Ex: Present programming card 2 followed by a Master Card. Then present multiple other registered Master Cards to remove them from the lock.

2E: Delete all Master Cards except the one used for this programming

② ● ♟ ● ② ● ● ● ● ●

Ex: Present Programming Card 2 followed by a Master Card to keep. Then present Programming Card 2 again to remove all Master Cards from the lock except the Master Card used for this programming.

3: JANITOR CARDS (ONLY IN PUBLIC MODE)

3A: Add Janitor Card

③ ● ♟ ● ♟ ● (Wait 5 seconds or touch Master Card) ● ● ● ●

Ex: Present Programming Card 3 followed by a Master Card. Then present a Compatible Card to register this as a new Janitor Card.

3B: Delete Janitor Card

③ ● ♟ ● ♟ ● (Wait 5 seconds or touch master card) ● ● ● ● ●

Ex: Present programming card 3 followed by a master card. Then present a registered janitor card to remove this from the lock.

3C: : Add multiple Janitor Cards

③ ● ♟ ● ♟ ● (Within five seconds) ♟ ● (Within five seconds) ● ● ● ● ● (Continue to present cards or wait 5 seconds to end programming)

Ex: Present Programming Card 3 followed by a Master Card. Then present multiple Compatible Cards to register these as new Janitor Cards.

3D: Delete multiple Janitor Cards

③ ● ♟ ● ♟ ● (Within five seconds) ♟ ● (Within five seconds) ● ● ● ● ● (Continue to present cards or wait 5 seconds to end programming)

Ex: Present Programming Card 3 followed by a Master Card. Then present multiple registered Janitor Cards to remove them from the lock.

3E: Delete all Janitor Cards

③ ● ♟ ● ③ ● ● ● ● ●

Ex: Present programming card 3 followed by a Master Card. Then present Programming Card 3 again to remove all Janitor Cards from the lock.

4: SWITCH BETWEEN PRIVATE AND PUBLIC MODE

4A: Switch to Public Mode

④ ● ♟ ● ● ●

4B: Switch to Private Mode

④ ● ♟ ● ● ●

NOTE 1: This programming toggles between Private and Public Mode. The LED indicates which mode the lock is being set to.

NOTE 2: If switching to Public Mode all registered User Cards are deleted. If switching to Private Mode, all Janitor Cards are deleted. Lock will remain unlocked until first User Card is added.

OTHER PROGRAMMING

12 OCH 13: ALLOW/DISALLOW TO LOCK MORE THAN ONE LOCK WITH THE SAME CARD (PUBLIC MODE)

Double locking means that a card can lock more than 1 lock in public mode. If disallowed, a card that is registered to one lock, cannot close another lock before it has opened the first lock. As default double locking is allowed. The function of disallow cards to lock more than one lock is NOT available with Mifare DESfire-cards.

12: Allow double locking (default setting)

① ● ② ●●●

13: Disallow double locking

① ● ③ ●●●

NOTE 1: If lock is set to disallow double locking it is not possible to use Cards with locked sectors, as this setup requires that the lock can write to the card.

21 AND 23: TURN SOUND ON AND OFF

21: Turn sound on

② ● ① ●●●

23: Turn sound off (default setting)

② ● ③ ●●●

34: RESET USER CARDS THAT IS LOCKED

In case the Master Card is used to open a lock in Public Mode with double locking disallowed, this will unregister the card from the lock, but the card will be locked. This card can now no longer be used unless it's cleared of its registration. To do this, use the following procedure.

34: Reset User Cards for use in public mode

③ ● ④ ●●● 1 ● (Within five seconds) 2 (Within five seconds) 3 ● (Continue to present cards for reset or wait five seconds to end reset procedure)

Ex: Present programming card 3 followed programming card 4 .Then present any locked user cards to reset them.

41 AND 42: TURN LED ON AND OFF (DISPLAY OCCUPIED LOCKER IN PUBLIC MODE)

41: Turn LED on (default)

④ ● ① ●●●

42: Turn LED off

④ ● ② ●●●

REGISTER USER CARD WITHOUT MASTERCARD FOR LOCK IN PRIVATE MODE

In certain cases it might be desirable to let a User claim a lock in Private Mode without having to register the User Card with a Master Card. This option is possible only on lock set in Private Mode that do not have any User Cards registered.

To set the lock in this state, remove all User Cards by the instruction under section 1E. This setup can now be copied to other locks by the Copy Card function, see Basic Instruction Section C: using the Copy Card

The first compatible Card presented to the lock will be registered as a User Card and the lock will move to locked position. Further registration of new User cards will now require a Master Card

1 ●●●

Ex: Present a Compatible card to the lock. This card will now be registered as a user Card and the lock will move into locked position.

NOTE: As the locks are Stand Alone, a card can be registered to infinite numbers of locks. If a lock is claimed by a non intended Card, this User Card can be removed by the instruction under 1E and the correct User Card can then be added as per above.

UPDATE LOCK WITH COPYING CARD

In the case you want to do a quick update of the lock settings for a larger number of locks, the copying card can be used. You first need to update 1 lock to the desired settings and then follow the steps below.

NOTE: In private mode it is possible to chose if user cards should be overwritten or not. Detailed information on how this is done is found in the document *Copy Card Function Guide* on our webpage.
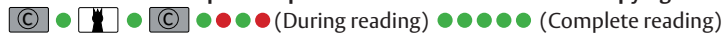
STEP 1: Clear the Copy Card

This is necessary in order to get step 3 to work properly.

④ ● Ⓒ ●●●● (During clearing of card) ●●●●● (Card cleared)
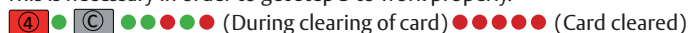
Ex: On any lock, present the switch card followed by the Copying Card to clear it from any data.

STEP 2: Read the setup of an updated lock and record it to the Copying Card (same as in section C)

Ⓒ ● ▮ ● Ⓒ ●●● (During reading) ●●●●● (Complete reading)

Ex: Present a Copying Card followed by the Master Card and present the Copying Card again for reading the setup of the lock.

STEP 3: Update the setup of a programmed lock (repeat for all locks that needs to be updated)

NOTE: For security reasons, this requires that at least one Master Card that is registered on the lock that is to be updated, is also copied onto the Copying Card.

Ⓒ ●●●● (During update) ●●●●● (Update complete)
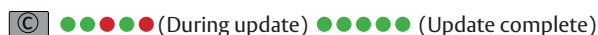
Ex: Present a Copying Card to update the lock settings.

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