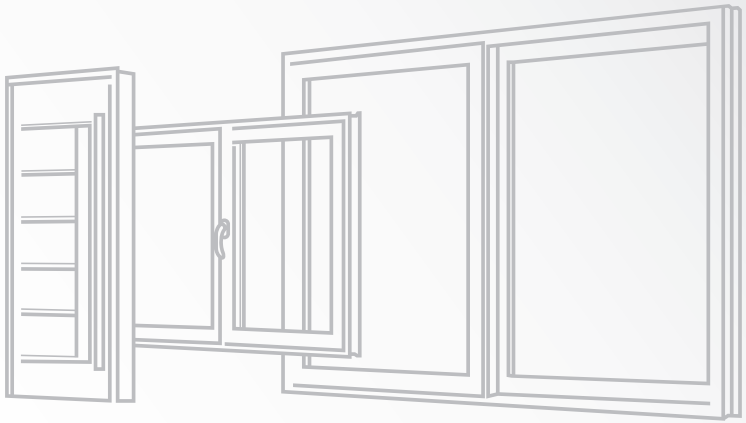
Navkom

KNS®
SILESIAN WINDOW FACTORY

EN



INSTRUCTION MANUAL

Bioreader
Biohandle
Biopass
Modul

ANDROID APP ON Google play

Download on the App Store

KNS®
SILESIAN WINDOW FACTORY

ŚLĄSKA FABRYKA OKIEN KNS Sp. z o.o.
44-300 Wodzisław Śląski, ul. Młodzieżowa 67B
NIP 647 245 87 03 • REGON 240831844
tel.: +48 32 455 25 58 • fax: +48 32 455 25 51
e-mail: sekretariat@kns-okna.pl
knsokna.pl

Dear user,

We thank you for choosing our fingerprint reader which will quickly and conveniently unlock your entrance door for you. Our fingerprint readers are user friendly but it is nevertheless wise to take a couple of minutes to get to know it better. On the following pages you will find a list of things which should be taken in consideration when using your new device and also step by step description of device operations.

We wish you a pleasant experience.

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THE DEFAULT LANGUAGE OF THE APPLICATION IS THE SAME THAT YOUR OPERATING SYSTEM (ANDROID OR APPLE) IS USING. IF X-MANAGER DOES NOT RECOGNISE YOUR SYSTEM'S LANGUAGE, ENGLISH WILL BE USED.

Manufacturer:
Navkom d.o.o., Cesta v Log 19, 1351 Brezovica, Slovenia
info@navkom.si, www.navkom.si

CORRECT PLACEMENT OF A FINGER ON THE SENSOR

1 A FINGERPRINT MUST COVER AT LEAST 70% OF THE SENSOR

Women, children and users with smaller fingerprints will have to press their fingers on the sensor more firmly in order to cover a big enough area (a fingerprint flattens and widens if pressed more firmly).

2 THE MOST PROMINENT PART OF A FINGERPRINT SHOULD BE PLACED IN THE MIDDLE OF THE SENSOR

For the majority of users this means the middle of their fingerprint, where the loops of the fingerprint pattern form a centre. Take a closer look of your fingerprints and their characteristics.

3 DRY SKIN IS THE NO. 1 CAUSE FOR POOR FINGERPRINT RECOGNITION

If the finger has to be pressed on the sensor more firmly than usual in order to recognize it, the most common cause is dry skin. This can happen more often in winter months. We can moisten our fingerprints with a help of a hand cream, moisturising tissue or by briefly touching a moist surface.

4 THE FINGER SHOULD BE HELD STILL WHILE IT IS PRESSED ON THE SENSOR

The device will make a beep after a successful reading. A finger should be moved only after the beep.

5 EACH USER FINGERPRINT SHOULD BE ENROLLED SEVERAL TIMES! MOREOVER, MORE FINGERS ON BOTH HANDS SHOULD BE ENROLLED, TO PROVIDE MORE OPTIONS IN THE CASE OF FINGER DAMAGE.

By taking these measures, good reading will be provided regardless of the finger position on the sensor and even in the case of a severely damaged fingerprint.

TECHNICAL DATA

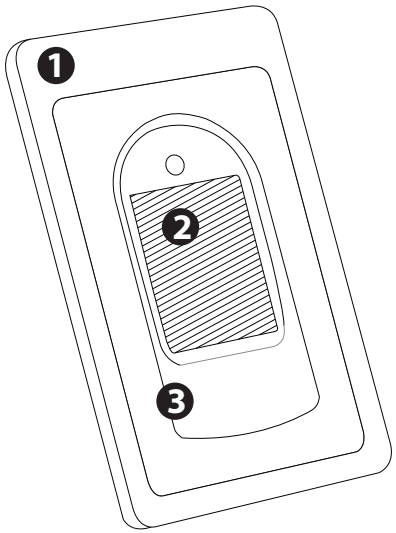
- Fingerprint capacity: 500
- Power supply voltage: 8-30 V, AC or DC
- 2 relay outputs
- Maximum current/voltage on the relay: 40V/3A
- Relay triggering time: 1 - 10 s
- Maximal power: 3,6 W
- Fast fingerprint recognition: <1,2 s
- Operating temperature range: -30ºC do +80ºC
- Maximum environmental humidity: 100 % IP65
- Fingerprints will remain in the memory in the case of power failure.
- Area capacitive sensor FPC1011F3
- User interface: 5-colour LED, beeper, buttons on the control and a smartphone app

CONTROL UNITS AND WAYS TO OPERATE A FINGERPRINT READER

Our fingerprint readers can be installed in different configurations with different control units:
1. Fingerprint reader + door leaf control unit (Bioreader, Biohandle, Modul)
2. Fingerprint reader + DIN rail control unit (Biopass)

COMPONENTS AND THEIR FUNCTIONS

EXTERNAL UNIT - FINGERPRINT READER



1 MULTICOLOR LED

It provides different signals about the status of the device and operations.

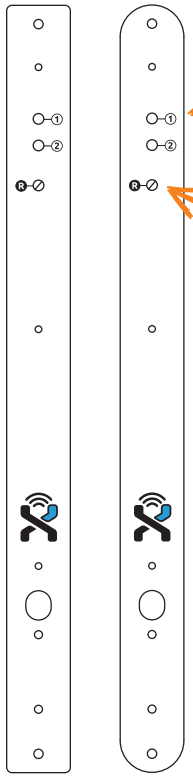
2 FINGERPRINT SENSOR

Always in standby mode. When a suitable fingerprint is placed on it, the door will open immediately.

3 BEEPER

It provides sound signals to complement the LEDs during operations.

CONTROL UNIT INSTALLED IN A DOOR LEAF



1 BUTTON 1

Switching on/o ffthe free entrance mode.

2 BUTTON 2

Switching on/o ffthe blue backlight.

3 BUTTON R

Performs FACTORY RESET.
To access the button, unscrew the bolt first.

SWITCH ON FREE ENTRANCE MODE – PRESS BUTTON 1:

- Hold button 1 until the blue LED starts flashing.
- The administrator confirms the operation with his fingerprint.

AS LONG AS THE FREE ENTRANCE MODE IS ON, THE GREEN LED SHINES.

SWITCH OFF FREE ENTRANCE MODE – PRESS BUTTON 1:

- Hold button 1 until the green LED is replaced by the blue one.

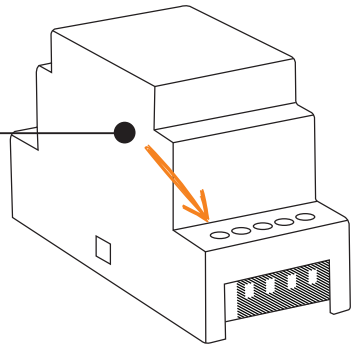
TURNING THE BLUE BACKLIGHT ON/OFF:

- Hold button 2 until the blue LED is turned on/off.

DIN RAIL CONTROL UNIT

RESET »R« BUTTON

On position 10.
Performs FACTORY RESET.



THE RELAY 2

Our fingerprint readers have two relay outputs. This means that you can use them to open one additional entrance (the garage door, a side door, etc.). When entering a new person in the X-manager, there is an option to choose which door they will open (the front entrance – relay 1, the additional entrance – relay 2, or relays 1 and 2 together).

FINGERPRINT READER SECURITY LOCKDOWN

In the case of the sensor not recognizing a fingerprint 7 times in a row, your fingerprint reader performs a 30 second security lockdown. You are not able to use your device for this period but it will come back online after 30 seconds. In case of additional 7 failed attempts, your fingerprint reader performs a lockdown again, this time for 60 seconds. For every following sequence of 7 failed attempts, the lockdown period is extended for additional 30 seconds. The longest lockdown period is 5 minutes. Whenever a finger print is recognised, the countdown towards lockdown is reset.

WHILE YOUR FINGERPRINT READER IS IN LOCKDOWN, VIOLET LED IS BLINKING CONTINUOUSLY. YOU ARE NOT ABLE TO USE YOUR DEVICE DURING THIS PERIOD.

THE READER AND THE CONTROL UNIT PAIRING

If the reader is replaced, the new unit needs to be paired with the control unit first:
1. Press and hold button "R" on the position 10 on the DIN control unit for 1 second.
2. First unscrew the security bolt over the button "R" on the door leaf control unit. Then press the button and hold it for 1 second.
After one second, you hear a short beep, and then you can release the button. When you hear a longer beep, it means that the new reader and control unit have been paired.

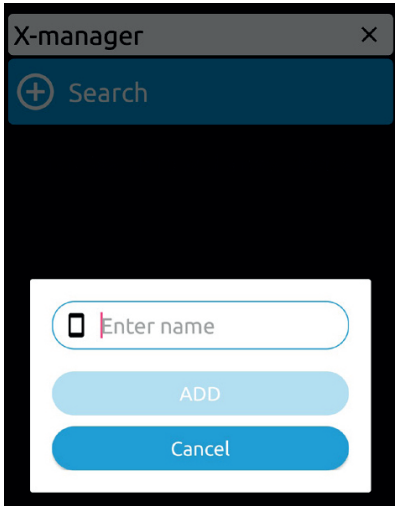
THIS STEP PREVENTS UNAUTHORISED PERSONS FROM REPLACING THE EXISTING READER WITH THEIR OWN AND THUS GAINING ACCESS.

FACTORY RESET

1. Press the "R" button on the DIN control unit and hold it for 10 seconds.
2. To access the button on the door leaf control unit, unscrew the bolt first. Press the "R" button and hold it for 10 seconds.
After 10 seconds, when you hear a beep, you can release the button. After that, violet LED flashes 5 times and you hear 5 beeps. This means that factory reset has been successfully performed.

THE READER ON WHICH THE FACTORY RESET IS PERFORMED, WILL STILL BE VISIBLE ON THE LIST OF DEVICES IN THE X-MANAGER, BUT YOU WILL NOT BE ABLE TO CONNECT WITH IT ANYMORE. YOU NEED TO DELETE THE READER AND ADD IT AGAIN.

CONNECTING TO THE READER (ANDROID)

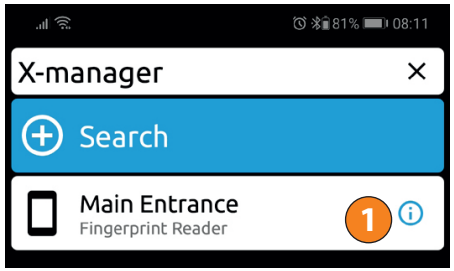


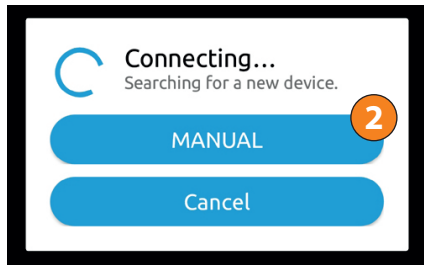
EVERY NEW READER NEEDS TO BE ADDED IN THE X-MANAGER APPLICATION, BEFORE IT CAN BE USED. IF MORE THAN ONE READER IS CONNECTED TO A SINGLE X-MANAGER APPLICATION, IT IS IMPORTANT THAT THE FIRST CONNECTION IS ESTABLISHED WITH ONE READER AT A TIME. THE REST OF THE READERS SHOULD NOT BE CONNECTED TO A POWER SUPPLY AT THE TIME OF THE FIRST CONNECTION.

1. Press **Search**.
2. Enter the name of the device and press **ADD**.

CONNECTION TO THE READER (ANDROID) WITH AN ADDITIONAL DEVICE

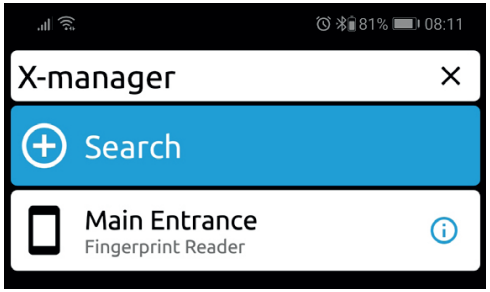
A SINGLE READER CAN BE CONNECTED TO MORE THAN ONE DEVICE (X-MANAGER APP)





1. Press the **i** icon next to the name of the reader on the device which has already established connection with the reader.
The password will appear on the lower portion of the screen. Write it down.
2. On the new device, press **Search**, and in the next step, choose the option **MANUAL**. When prompted, enter the name and the previously retrieved password of the reader.

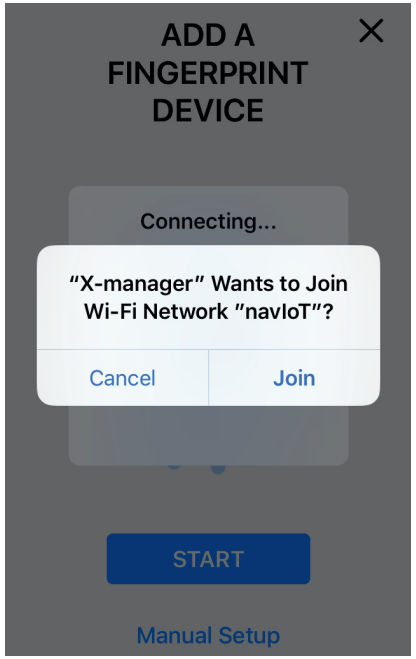
DISCONNECTING THE READER (ANDROID)



Press and hold the name of the reader. When prompted, confirm the disconnection.

CONNECTING TO THE READER (APPLE)

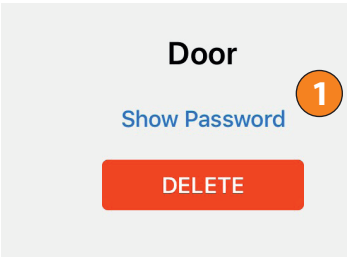
EVERY NEW READER NEEDS TO BE ADDED IN THE X-MANAGER APPLICATION, BEFORE IT CAN BE USED. IF MORE THAN ONE READER IS CONNECTED TO A SINGLE X-MANAGER APPLICATION, IT IS IMPORTANT THAT THE FIRST CONNECTION IS ESTABLISHED WITH ONE READER AT A TIME. THE REST OF THE READERS SHOULD NOT BE CONNECTED TO A POWER SUPPLY AT THE TIME OF THE FIRST CONNECTION.

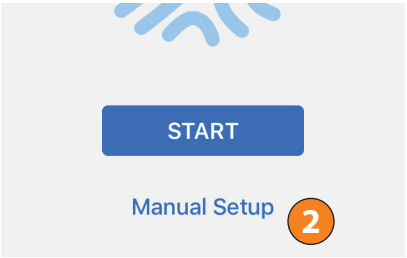


- Firstly, press **Add device**, followed by **START**.
- To confirm the connection, press **Join**.
- After entering the name of the reader, press **Setup**.

CONNECTION TO THE READER (APPLE) WITH AN ADDITIONAL DEVICE

A SINGLE READER CAN BE CONNECTED TO MORE THAN ONE DEVICE (X-MANAGER APP)

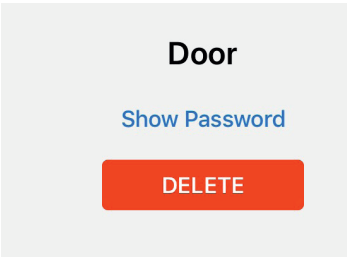




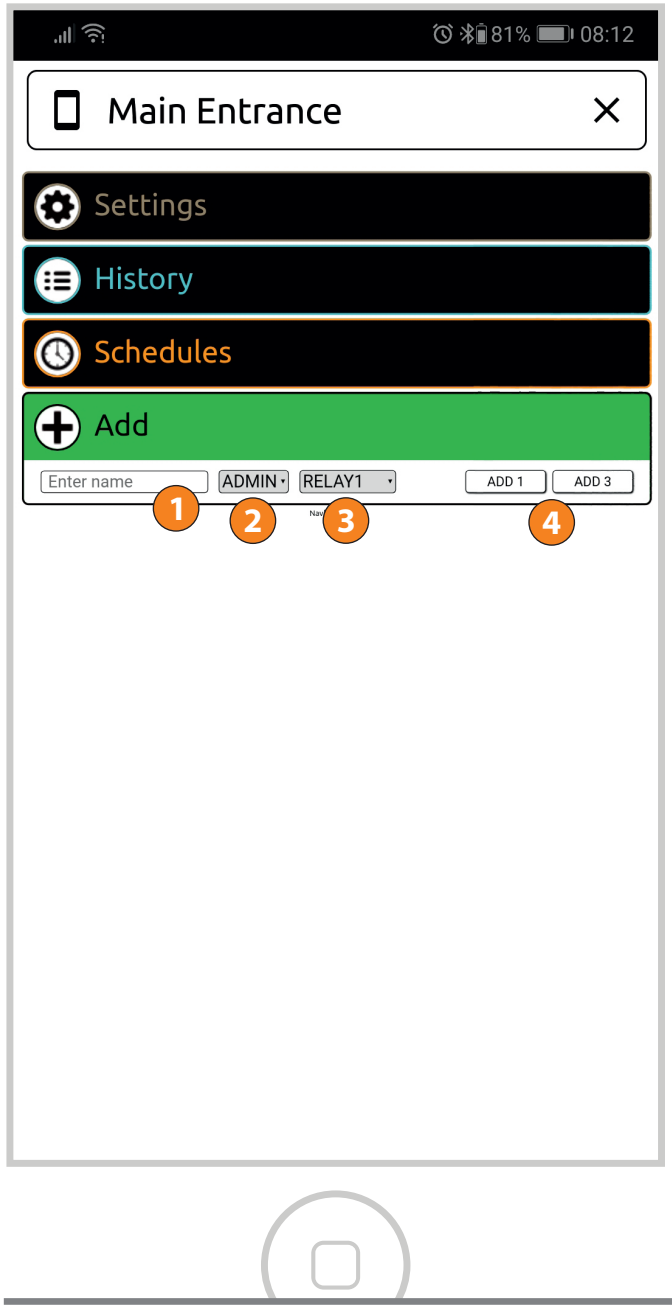
1. Press the **i** icon next to the name of the reader on the device with established connection to the reader. After prompted, press **Show password**.
   The password will appear on the lower portion of the screen. Write it down.

2. On the new device, press **+** and in the next step, chose the option **Manual Setup**. When prompted, enter the name and the previously retrieved password of the reader and press **SETUP**.

DISCONNECTING THE READER (APPLE)



Press the **i** next to the name of the reader and then confirm by pressing **DELETE**.



ADDING PEOPLE

THE ADDING PROCEDURE IS STARTED BY PRESSING THE GREEN FIELD

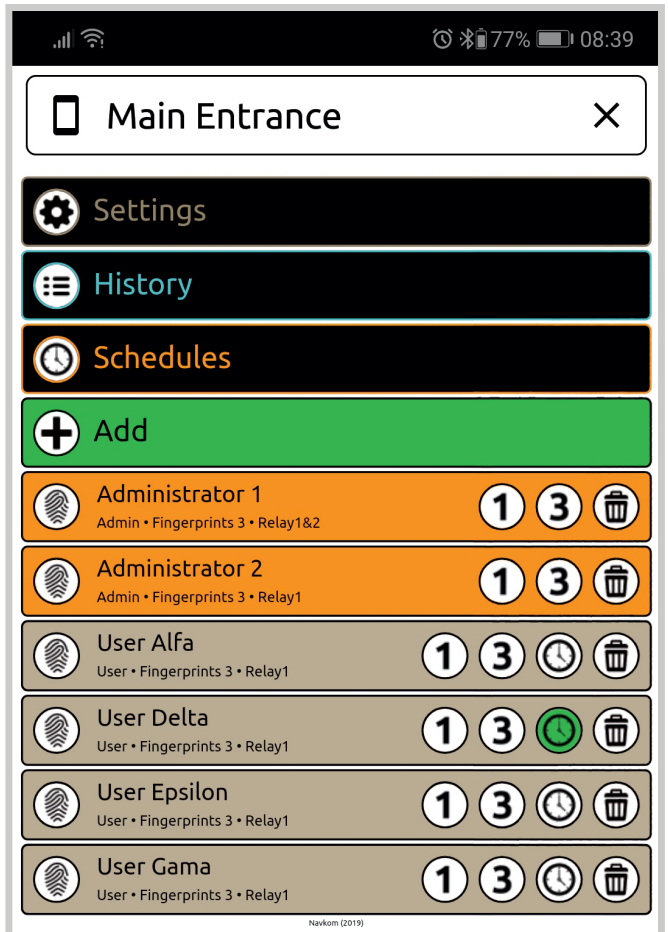
1. Enter the person's name.

2. Choose either administrative or user rights. An administrator can perform all functions including deleting other users and administrators, **while a user can only open the door.**

3. Choose the relay that the person will trigger (relay 1, relay 2, or relays 1 and 2 together).

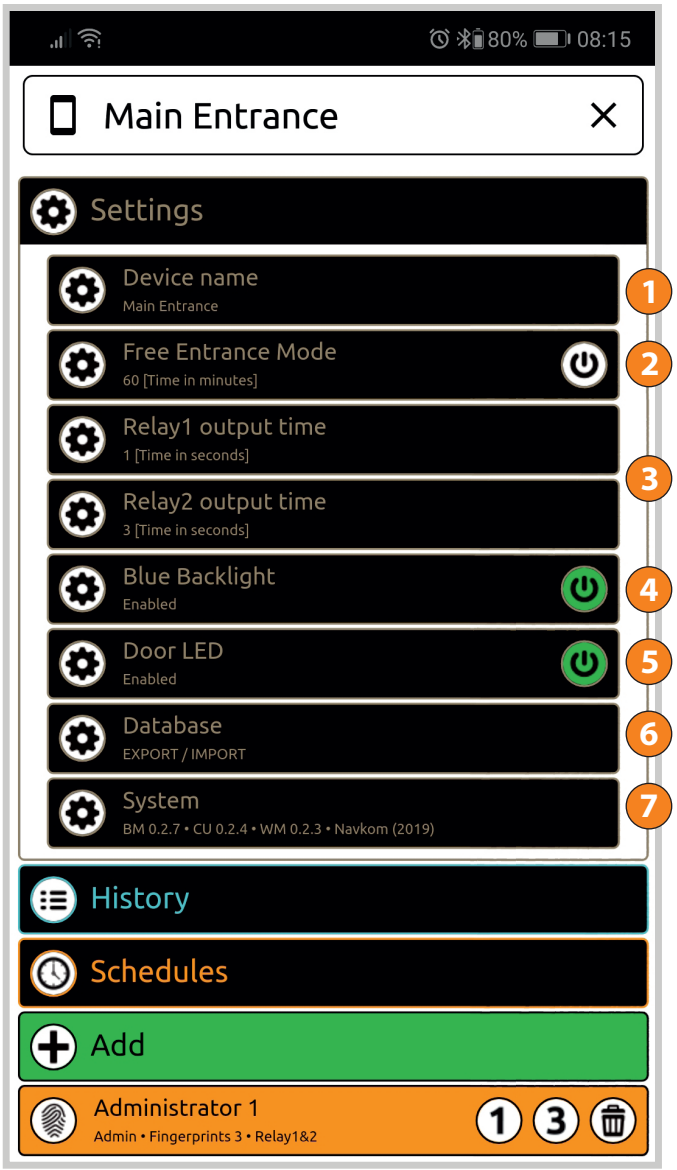
4. 1 or 3 fingerprints for the person are enrolled. Fingerprints for any person can also be enrolled later.

The fingerprint capacity of the reader is 500.
Any person can have any number of fingerprints enrolled.
We recommend that every person has several fingerprints enrolled – even several fingerprints of the same finger.



THE LIST OF ENROLLED PEOPLE

- **The settings cannot be changed after the entry of a person has been made. You need to delete the person and add them again with different settings.**
- Administrators are indicated with orange colour and users with light brown.
- There is some data under the name of each person:
  - status (User/Administrator)
  - number of enrolled fingerprints
  - relay(s) which this person will trigger
- You can enroll additional fingerprints of any person at any time. By pressing **1** icon, one fingerprint will be enrolled. By pressing **3** icon, three fingerprints will be enrolled.
- Users can have schedules assigned to by pressing the icon of **the clock**. You need to use the schedules beforehand. When the schedule is active, the power icon turns green. Each user can have one schedule assigned.
- Every administrator can delete users and other administrators. One administrator must always remain in the database and can be deleted only by Factory Reset.
- The persons on the list can be deleted by pressing the **Bin** icon.



SETTINGS

ALL SECURITY FUNCTIONS CAN BE PERFORMED ONLY WITH THE CONFIRMATION OF THE ADMINISTRATOR'S FINGERPRINT.

1. **The name of the reader**

2. **Free entrance mode:** When this mode is switched on, any finger that is placed on the sensor opens the door. The period during which free entrance mode is switched on can be adjusted (1 to 600 minutes) and is automatically turned off after. While the free entrance mode is active, the backlight on the reader is green.

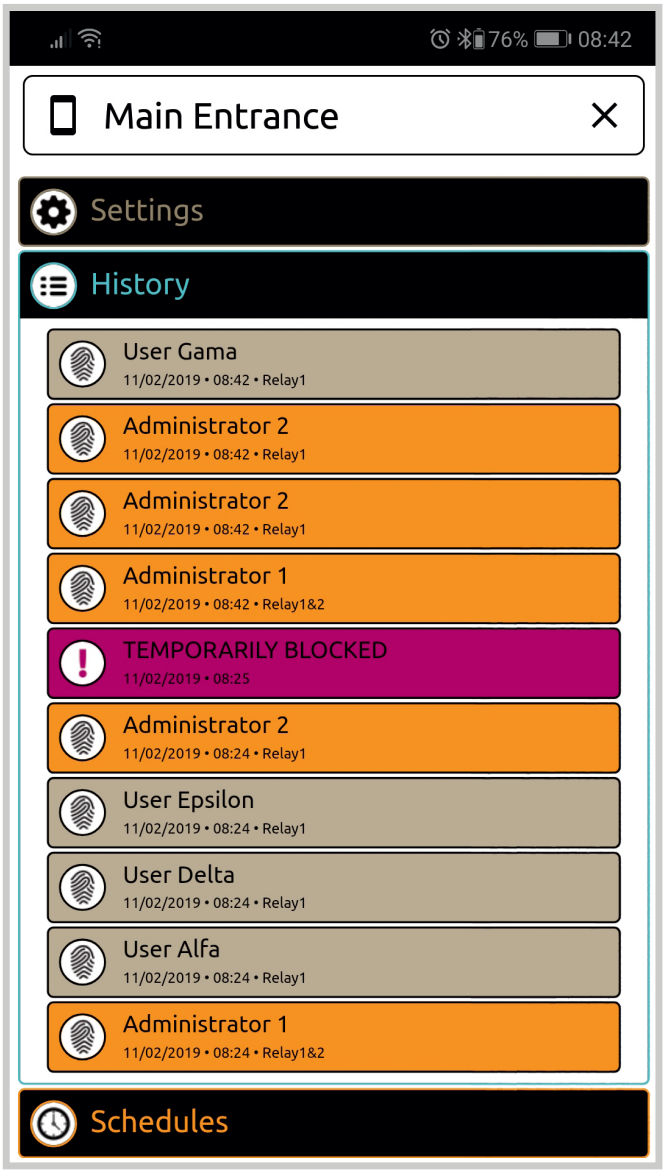
3. **Relay opening time:** The length of time during which the relay is switched on can be adjusted between 1 and 10 seconds. This setting is useful when using an electric strike.

4. **Blue backlight:** the blue backlight on the reader can be turned off.

5. **LED settings:** If there is an additional LED lighting in the door, it can be connected to the system and controlled by the X-manage**(only with door leaf control unit)**. It is possible to adjust the brightness (1% to 100%) and the schedule for turning the lighting on/off. If the checkbox next to the 24h is checked, the LED will be switched on continuously.

6. **Database import/export:** Fingerprint database can be transferred from one reader to another.
1. Press the **Export** button on the source reader. This is confirmed by an administrator.
2. Make the connection to the new reader and press the **Import** button. If an administrator has already been enrolled on the new reader, their fingerprint needs to confirm the import. If the database on the new reader is empty, this step does not require confirmation.
3. Activation of the transferred database needs to be confirmed by an administrator of the source reader.

7. **System:** Software version



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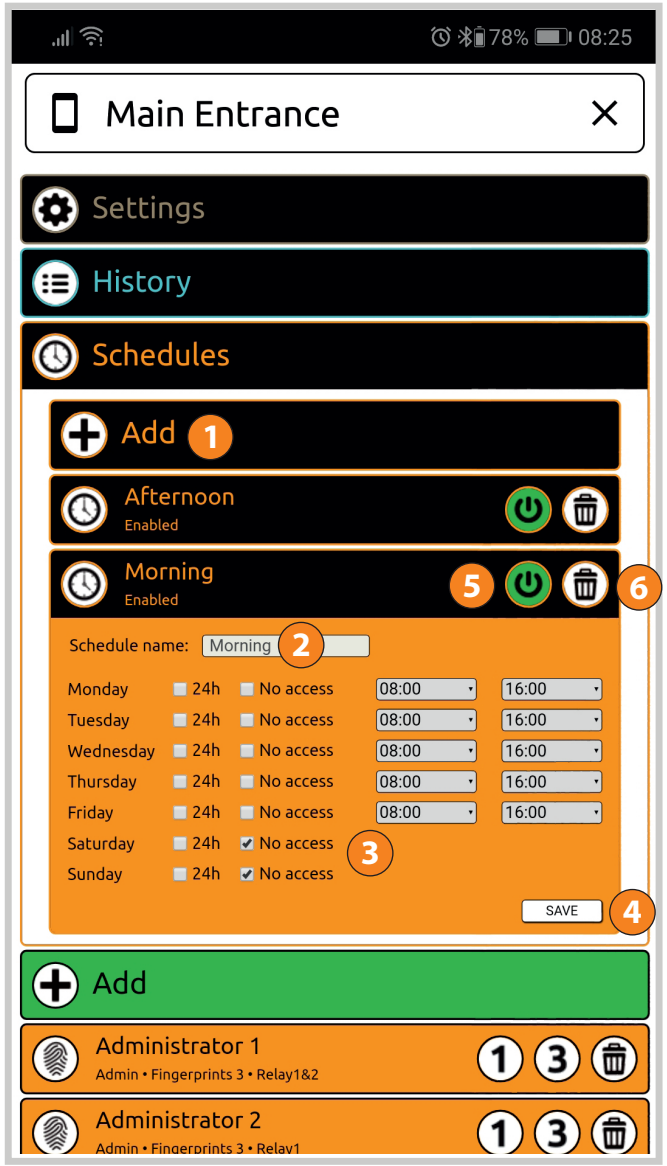
HISTORY

REVIEW OF THE LAST 100 EVENTS

The following events are being monitored:

- all successful entries (users and administrators)
- all attempts of entry outside the scheduled time (the schedule must be turned on and assigned to a user)
- temporary lock downs

The history cannot be deleted. The news events overwrite the oldest events in such a way that the combined number of events is always 100.



SCHEDULES

SCHEDULES CAN BE ASSIGNED TO USERS TO LIMIT THEIR ENTRANCE TIME

1. To add a schedule, press **Add**.
2. Write the name of the schedule.
3. **There are three options to limit the access for individual days of the week:**
   - unlimited access 24h
   - no access
   - limited access (from – to)
4. When you make the desired settings, press the **SAVE** button.
5. When the schedule is saved, it automatically becomes active. This is indicated by the green **Power** icon.
   Each schedule can be deactivated by pressing the **Power** icon, which in turn turns white. If deactivated schedule was assigned to any users, those users have unlimited access.
6. A schedule can be deleted by pressing the **Bin** icon. If the deleted schedule has been assigned to any users, they have gained unlimited access.

Up to five schedules can be created.