

# PARKLIO BARRIER USER MANUAL



Thank you for the confidence you have shown us by purchasing our parking barrier.

**Please read this manual first!**

Dear Customers,

We hope that all your expectations of this product will be fulfilled. Parklio is manufactured using the latest technologies and has undergone rigorous quality control procedures.

**The User Guide will help you use your product quickly and safely.**

- Read the user manual before installing and using your product.
- **Always follow the safety instructions.**
- Keep this user manual at hand for future reference.

## 00. TABLE OF CONTENTS

### PARKLIO BARRIER DETAILED INSTRUCTIONS

01. Parking barrier.....	05
1.1 Exterior.....	05
1.2 Base.....	06
1.3 Electronics box.....	07
1.4 Battery box .....	07
02. Technical data.....	09
03. Safety warnings.....	10
04. Installation and connection.....	11
4.1 Checking parts .....	11
4.2 Opening the barrier .....	11
4.3 Positioning the barrier.....	12
4.4 Barrier installation.....	12
4.5 Setting up the barrier .....	14
4.6 Putting the barrier in operation .....	15
05. Parklio mobile application.....	17
5.1 Android.....	17
5.1.1 Lowering and extending the barrier .....	18
5.1.2 Changing the name of the barrier.....	18
5.1.3 Auto-close.....	19
5.1.4 Battery status.....	19
5.1.5 Removing the barrier.....	20
5.1.6 Key sharing.....	20

5.1.7 Key blocking.....	21
5.2 Ios .....	22
5.2.1 Lowering and extending the barrier .....	22
5.2.2 Changing the name of the barrier.....	22
5.2.3 Auto-close.....	23
5.2.4 Battery status.....	23
5.2.5 Removing the barrier.....	24
5.2.6 Key sharing.....	24
5.2.7 Key blocking.....	25
06. Cleaning and maintenance.....	26
6.1 Cleaning the barrier interior .....	26
6.2 Cleaning the barrier exterior.....	26
07. Replacing the safety pin.....	26
08. Manual control of the barrier.....	27
09. Disposal of equipped device.....	28
10. Faq.....	29

## 01. PARKING BARRIER

### 1.1 Exterior

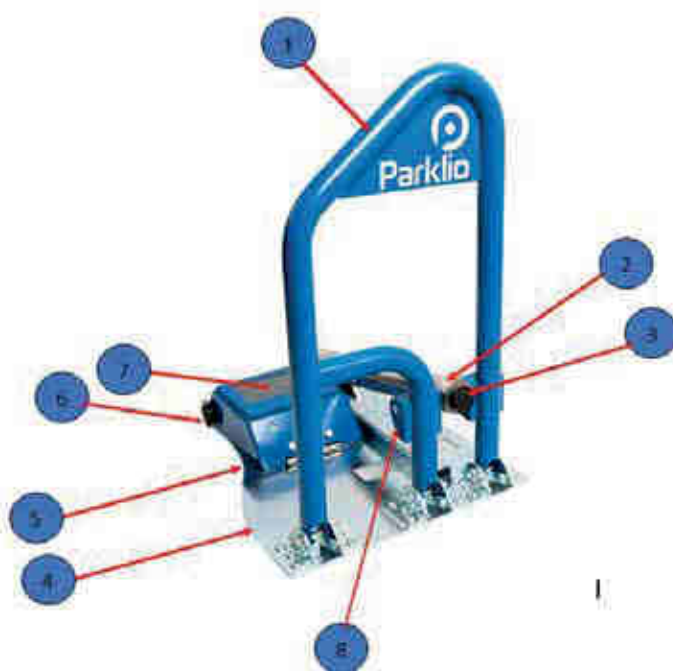


Figure 1 - Exterior of the Parking barrier

1. Arm
2. Mechanism Assembly
3. Mechanism Assembly Lock
4. Base
5. Cover
6. Cover Lock
7. Solar panel
8. Safety pin

## 1.2 Base

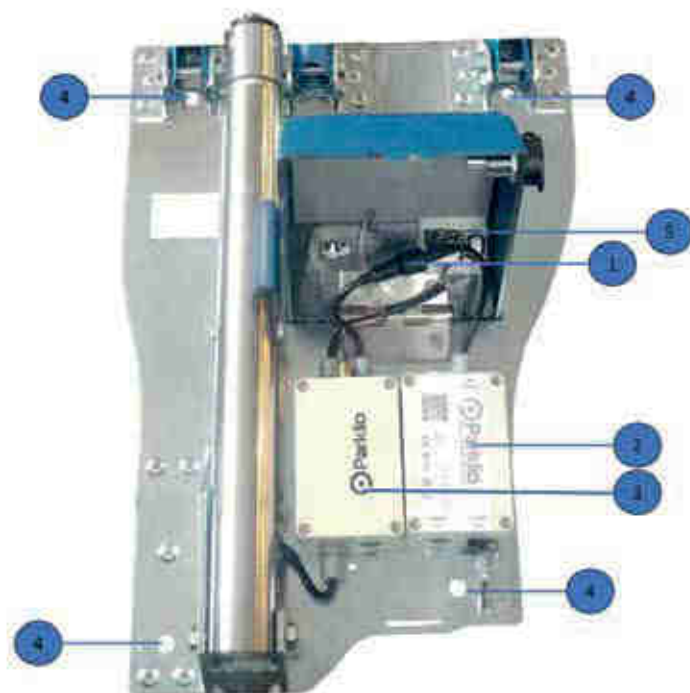


Figure 2 - Interior of the Parking barrier

1. Battery – Electronics connector
2. Battery Box
3. Electronics Box
4. Anchor holes
5. Laser

## 1.3 ELECTRONICS BOX



Figure 3 - Electronics box (view from the above)



Figure 4 - Electronics box (front view)



Figure 5 - Electronics box (rear view)

## 1.4 BATTERY BOX



Figure 6 - Battery box

1. LED charging light
2. Battery charging plug and cover
3. Battery box – Electronics box connecting cable

The battery levels are displayed on the Parklio app for your mobile device. If the battery is low the app will warn you to charge the battery.

To charge the battery unlock the cover with the supplied key and open it, take the battery box out of the cover. Uncover the battery adapter cover and plug in the adapter.

When the battery box is charging the green LED light will be turned on.

When the battery is full, the LED light will turn off.

**Make sure the adapter cover is closed when the battery box is not charging!**

Environment conditions for charging mode:

- For indoor use;
- For altitude up to 2000m;
- For ambient temperature 0°C to +45°C;
- For relative humidity 20% to 80%;
- For supply voltage fluctuations up to  $\pm 10\%$  of the rated voltage range;
- For transient overvoltage up to the levels of overvoltage category II;
- For applicable pollution degree of the intended environment 2 (PD 2).



## 02. TECHNICAL DATA

Width	331mm
Height	68 mm
Length	918 mm
Weight	15kg
Height with raised arm	517 mm
Ingress protection level	IP 65
Working temperature	-20°C - 60°C
Frequency (for AC connection)	50/60 Hz

Table 1 - Technical data of the parking barrier

Due to improvements of the product quality technical specifications may change without previous notification.

The figures in this manual are schematic and may not match the product completely.

The values stated on the product labels or in the accompanying documentation have been obtained in laboratory conditions in accordance with the relevant standards. Depending on working conditions and environmental conditions, these values may be different

### 03. SAFETY WARNINGS

This section contains safety instructions that will help to protect you from risk of injury or property damage. Failure to follow these instructions will invalidate all warranties.

- Do not use the barrier , if you have not read and understood the operating instructions before.
- **Before first use of the barrier**, make sure that all the parts listed in these instructions are inside of the original packaging.
- Only plugs and batteries supplied by the manufacturer of the barrier should be used. Any replacement of batteries and connectors may affect the loss of warranty.
- Ignoring usage instructions ,improper installation and use of the barrier may result in damage to the barrier or injuries to the user. Instructions should always be at hand.
- Never expose the inner workings to water.
- The device must be exclusively installed on hard, flat concrete floor.
- The device must be disconnected from the power supply during installation, maintenance, cleaning and repairs.
- Leave the barrier repairs to a specialist. Improper repairs may lead to an accident or a malfunction in the unit.
- The warranty does not cover consumable parts of the device, color fading and chipping, increased noise as a result of aging of the device and other aesthetic effects that do not affect its functionality or safety. Never use chemical solvents on the product as it may cause an explosion.
- Strictly follow the instructions for proper installation and connection to the electrical network.

THE APPLIANCE HAS BEEN ESTABLISHED ACCORDING TO ALL VALUENT SAFETY CRITERIA AND STANDARDS. HOWEVER, WE RECOMMEND THAT WITHOUT THE NEEDED HELP AND SUPERVISION, CHILDREN BY 8 YEARS, A PERSON OF DISABLED PHYSICAL, MOTOR OR PERSONAL EQUALITY AND RELATED PERSONS WITHOUT A PREVIOUS EXPERIENCE OR KNOWLEDGE DO NOT USE THE BARRIER. EXCEPTION IS THE DEVICE USAGE UNDER ADEQUATE SUPERVISION, IF THEY HAVE RECEIVED SAFETY INSTRUCTIONS, OR IF THEY ARE INFORMED ABOUT THE DANGER CAUSED BY IMPROPER USAGE. THE SAME RECOMMENDATION IS FOR JUVENILES AND THEIR USAGE OF THE DEVICE.

**STOP CHILDREN TO PLAY WITH THE BARRIER. ALSO DO NOT LET CHILDREN CLEAN THE APPLIANCE OR MAINTAINING IT WITHOUT ADEQUATE SUPERVISION.**

## 04. INSTALLATION AND CONNECTION

### 4.1 CHECKING PARTS

After unpacking the barrier check that all necessary parts are delivered.

The original packaging should include the following items:

1. Parklio barrier
2. Power adapter (charger)
3. Anchor x 4
4. Battery box
5. Electronic box
6. Key x 2
7. Safety pin

### 4.2 OPENING THE BARRIER

The barrier is shipped sealed and folded.

After opening the packaging, pull the barrier out and place it on a flat concrete floor and unfold the barrier arm to the ground.

### 4.3 POSITIONING THE BARRIER

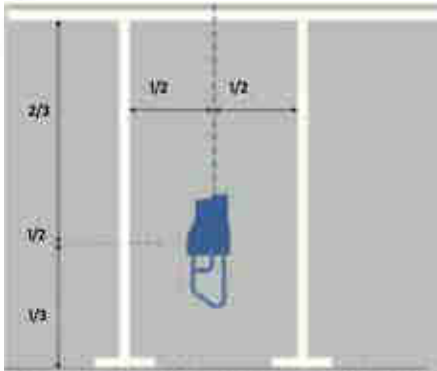


Figure 7 - Positioning the barrier

It is recommended to place a barrier in half of the parking space, up to two thirds of the parking space.

The illustration (Figure 7) is only a proposal for setting the barrier and does not condition users setup but is required for full functionality of the barrier.

### 4.4 BARRIER INSTALLATION

For the installation you will need an electrical drill with Ø10 drill bit , a hammer, a size 13 socket wrench, and 4 units of Ø10 anchors that come with the barrier package.

#### Step 1 - MARKING DRILLING SPOTS

Mark the four spots that need to be drilled. It is recommended to use the barrier base [Figure 2 - Interior of the barrier] as a template.



Figure 8 - Marking drilling spots

### Step 2 - DRILLING MARKED SPOTS

Drill the previously marked spots with a 10 mm drill bit.



Figure 9 - Drilling marked spots

### Step 3 - ANCHOR PLACEMENT

Place the barrier over the drilled holes so that the drilled holes in the ground match with the holes on the barrier [Figure 2-part 6]. After that, place the anchors in the holes and insert them into the holes by a slight hammer stroke.



Figure 10 - Anchor placement

#### Step 4 - FIX THE BARRIER

Fix the barrier i.e. tighten the anchors with the size 13 socket wrench.



Figure 11 - Fixing the barrier

### 4.5 SETTING UP THE BARRIER

Put the arm in a vertical position, insert the safety pin through the holes, lock the mechanism assembly by pushing the lock. Make sure the cross pin on the safety pin is parallel to the mechanism assembly.

If the cross pin is not positioned properly the mechanism assembly will not be lockable. Make sure NOT to lift the mechanism assembly more than 60°.



Figure 12 - Cross pin position

## 4.6 PUTTING THE BARRIER IN OPERATION

### Step 1 - CONNECTING THE BATTERY BOX

Before connecting battery box [Figure 6] to the electronic box [Figure 3], it is necessary for the barrier to be installed to desired spot on the ground like described in the section 4.4 above.

Unlock the case with the supplied key and connect the battery box [Figure 6] and electronics box [Figure 3] cables inside the case. The boxes should be aligned vertically and horizontally one to the another.

**Please, check on the battery box that the cap on the charging port is closed!**



Figure 13 - Connection of the power supply

### Step 2 - CLOSING THE COVER

Place the barrier cover over the housing so the cover matches with the slot in the base and lock the cover by pushing in the lock.

**CHECK THAT THE CABLE DOESN'T NOT PROTRUDE UNDER THE COVER!**

### Step 3 - DOWNLOADING THE MOBILE APP

Mobile app downloading is available via QR code:

Android -



iOS -



Or via the following links:

Android - <http://bit.ly/2iMkln5>

iOS - <https://apple.co/2iaV7aA>



## Step 4 - REGISTRATION IN THE MOBILE APP

There are two ways to login, with e-mail or with Gmail.



Figure 14 - Email login


### a.) Login with email

You need to click on the "New User" button and enter your email address along with the desired password. After that, the previously entered email address will receive a confirmation message for the account within the Parklio mobile application.

### b.) Login with Gmail account

By clicking the "Sign in via Gmail" button within the Parklio application, an account with the linked Gmail account will be automatically generated.

## Step 5 - PAIRING THE BARRIER WITH THE MOBILE APPLICATION

By clicking the button in the lower right corner,  new screen opens where all Parklio barriers are listed. To pair the barrier with the mobile application, it is necessary to turn on the Bluetooth on the smartphone and to be close to the barrier (within the range of the Bluetooth connection). Select a barrier with your serial number located inside the barrier. After selection, on the main screen, the application will show all the barriers you have paired with. Clicking on a particular barrier opens the screen through which you manage the chosen barrier.

**To connect to the barrier for the first time and complete the setup process, the owner must be connected to the internet so that the server can recognize the barrier owner and verify his digital key.**

### Operating with multiple barriers

If there are more parking places equipped with Parklio Barriers, it is recommended to operate multiple barriers from a single admin account.

If the multiple users need to have the administrative privileges (operating with multiple barriers, sharing the digital keys, have full control of the barriers ), they can operate barriers from that admin account on one or more devices (smartphones, tablets

## 05. PARKLIO MOBILE APPLICATION

### 5.1 ANDROID

#### 5.1.1 LOWERING AND EXTENDING THE BARRIER

- By pressing the „lower“ button, the barrier will open.
- By pressing the „extend“ button the barrier will close.

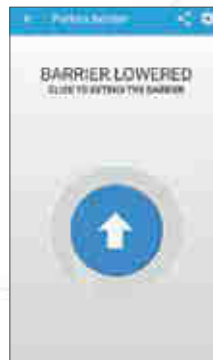


Figure 15 - Barrier manipulation

#### 5.1.2 CHANGING THE NAME OF THE BARRIER



By clicking the settings icon  a new screen will open where the user can change the title of the barrier by clicking on the „Title“ button.



Figure 16 - Changing the name of the barrier

### 5.1.3 AUTO-CLOSE

By clicking the settings icon  a new screen will open where the user can turn the auto-close option on or off.

When the auto-close option is turned on Parklio barrier will automatically close upon vehicle departure. When the auto-close option is turned off, the barrier will not automatically close.

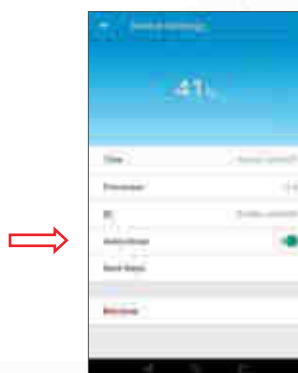


Figure 17 - Auto-close option

### 5.1.4 BATTERY STATUS



By clicking the settings icon  a new screen will open where the user can see battery status within the "Battery" field.



Figure 18 - Status of the battery

### 5.1.5 REMOVING THE BARRIER

By clicking the settings icon  a new screen will open. In the new dialog box click the „Remove“ button to remove the selected barrier.

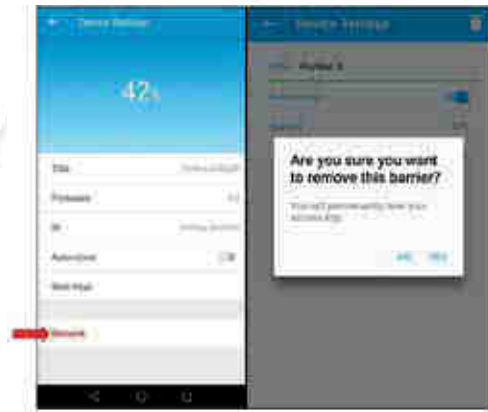


Figure 19 - Removing the barrier

### 5.1.6 KEY SHARING


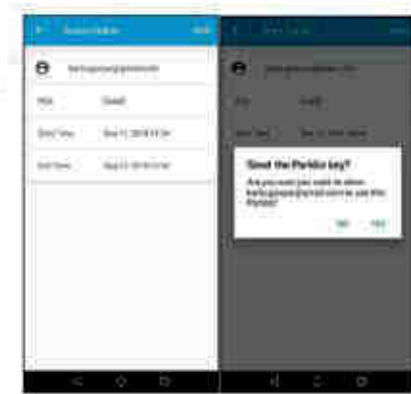
By clicking the share icon  a new screen with a search field will open. The user needs to type the recipient's email in the search field.



Figure 20 - Key sharing default screen


After the user has typed the correct email address a new card will open where the barrier owner can define the time interval in which the key will be valid.

The guest user can use the barrier for the time interval defined by the owner of that parking barrier. By clicking on the email of a recipient a dialog box will open with confirmation question for key sending.



**Figure 21 - Defining and sending the key**

### 5.1.7 KEY BLOCKING

By clicking the settings icon  a new screen will open, press the „Sent Keys“ button and a list of all the keys that have been sent should appear. By clicking on one of the keys on the list a new dialog box will open with option to remove the selected key. It is necessary to be connected to the barrier while blocking the sent key.



**Figure 22 - Key blocking**

## 5.2 IOS

### 5.2.1 LOWERING AND EXTENDING THE BARRIER

By pressing the „lower“ button, the barrier will open.  
By pressing the „extend“ button the barrier will close.

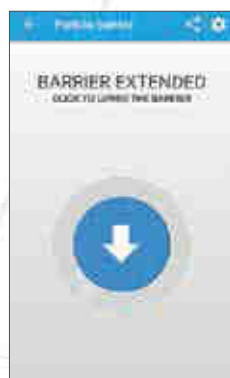


Figure 23 - Lowering the barrier

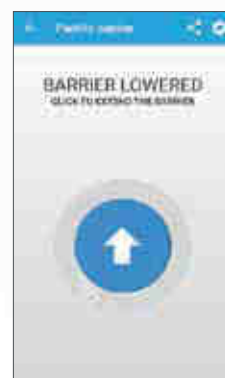


Figure 24 - Extending the barrier

### 5.2.2 CHANGING THE NAME OF THE BARRIER



By clicking the settings icon  new screen will open where the user can change the title of the barrier by clicking on the „Title“ button.



Figure 25 - Changing the name of the barrier

### 5.2.3 AUTO-CLOSE


By clicking the settings icon  new screen will open where the user can turn the auto-close option on or off.

When the auto-close option is turned on Parklio barrier will automatically close upon vehicle departure. When the auto-close option is turned off, the barrier will not automatically close.



Figure 26 - Managing auto-close option

### 5.2.4 BATTERY STATUS

By clicking the settings icon  new screen will open where the user can see battery status within the "Battery" field.

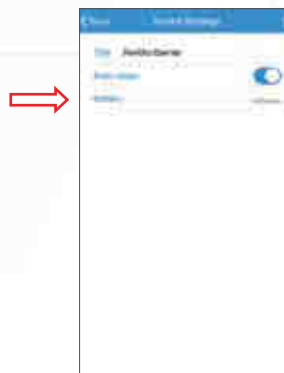




Figure 27 - Status of the battery

### 5.2.5 REMOVING THE BARRIER

By clicking the settings icon  a new screen will open. In the new dialog box click „Remove“  button to remove the selected barrier. By pressing that icon, a new dialog box will open with an option to remove the selected barrier.

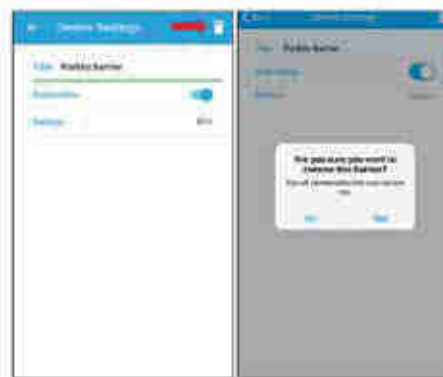


Figure 28 - Removing the barrier

### 5.2.6 KEY SHARING


By clicking the share icon  a new screen with a search field will open. The user needs to type the recipient's email in the search field.



Figure 29 - Key sharing default view (iOS)



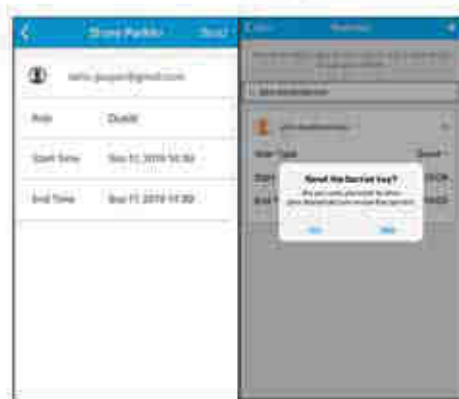
The user needs to type the recipient's email in the search field.

After the user has typed the correct email address a new card will open where the barrier owner can define the time interval in which the key will be valid and user privileges.

There are two types of user privileges: admin and guest.


The guest user can use the barrier for the time interval defined by the owner of that parking barrier. Admin user has all the privileges like the barrier owner.

By clicking on the email of a recipient a dialog box will open with confirmation question for key sending.



**Figure 30 - Defining and sharing key (iOS)**

## 5.2.7 KEY BLOCKING

By clicking the settings icon  a new screen will open, press the „Sent Keys“ button and a list of all the keys that have been sent will appear. By clicking on one of the keys on the list a new dialog box will open with option to remove the selected key.



**Figure 31 - Key blocking (iOS)**

## 06. CLEANING AND MAINTENANCE

Before cleaning the barrier disconnect the power supply.

Children should not clean and maintain the barrier without proper supervision

### 6.1 CLEANING THE BARRIER INTERIOR

Cleaning the interior of the barrier should only be carried out with a dry cloth.

### 6.2 CLEANING THE BARRIER EXTERIOR

Wash the outer casing of the barrier with liquid water, and in the case of stubborn stains or deposits, detergent may be used, but without abrasive properties. It is also necessary to remove all obstacles around and from the barrier that may be an obstacle to normal barrier activity (eg. clumps of leaves around the laser opening) and specially take care of laser glass so it is clean and clear!

## 07. REPLACING THE SAFETY PIN

If the safety pin is broken or damaged it needs to be replaced.



Figure 32 - Safety pin



Figure 32.1 - Broken pin

The pin is designed to break into three pieces. The steps of replacing pin are shown below.

Remove the broken pieces of the safety pin.

Push the new safety pin and repeat the steps from the section 4.5.



Figure 33 - Inserting the safety pin

## 08. MANUAL CONTROL OF THE BARRIER

To manually open the barrier, unlock the barrier mechanism and using the provided key, push the safety pin out and lower the barrier arm.



Figure 34 - Removing the safety pin

## 09. DISPOSAL OF EQUIPPED DEVICE

We use environmentally friendly materials for packaging that can be recycled, deposited or destroyed without any hazard to the environment. For this purpose, the packaging materials are appropriately labeled.

The symbol on the product or on its packaging signifies that this device should not be handled like ordinary household waste. Take this product to a suitable collection point for electrical and electronic equipment recycling.

Take out the worn battery from the barrier and dispose it at a suitable place. 38 The proper way of disposing the barrier will help you to prevent possible negative consequences and impacts on the environment and human health that could occur in the event of improper disposal of the barrier. For more detailed information on disposing and processing the barrier, contact your local waste disposal service, utility company, or the store where you purchased the barrier.

## 10. FAQ

### 01. How do I reset the barrier?

The barrier can be reset by holding „reset“ button on the electronics box on the barrier.

### 02. How do I charge the battery for powering the barrier?

Unlock the cover and open it. Remove the plug on the charging port and insert the supplied charger in. **While the battery is charging the green LED light on the battery box will light up.** When the battery is charged the green LED light will shut off.

### 03. At what range can I use the barrier?

The barrier uses a Bluetooth Low Energy module with a range of 100 meters but in normal conditions it goes up to 60 meters.

### 04. I can't connect to the barrier!

In case you can not connect to the barrier, and you have administrator privileges, reset the application and retry. If the error reoccurs open the lid and reset the barrier via the „RESET“ button on the electronics box.

### 05. What do I do when the barrier is stuck?

If the application is telling you that a certain barrier is jammed you must remove all mechanical obstructions that is preventing regular function of the barrier.

### 06. What do I do when the barrier does not close upon my departure?

In case the barrier does not automatically close upon your departure check if the „auto-close“ option in the settings of the application is turned on. If the problem persists contact customer support.

### 07. Do I need to be connected to the internet to use the barrier?

To use the barrier you do not need either a mobile or WiFi connection.

You only need the internet connection the first time to successfully complete the setup process.

### 08. Can two users operate the same barrier simultaneously?

A single user can operate only one barrier at a particular time. While a user is connected to a certain barrier, other users can not operate the same barrier.

### 09. Does the app warn me when the battery levels are low?

The app will warn you if the battery levels are under 20% during connection to the barrier.

**10. What do I do if an „Authentication key already set“ message appears during connection to the barrier?**

Initially, when the key is set, only the administrator can operate the barrier and send keys to other users. For example, if you change your mobile phone, where your old phone is paired to the barrier and has administrator privileges, you must reset the barrier to factory settings **before pairing up your new phone to the barrier.**

**11. What if the barrier is up and I don't have my mobile phone?**

You can manually retract the barrier by removing the safety pin as instructed in the manual above.

