



RF-90 SMARTKEY

INSTALLATION MANUAL



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1. Introduction

The wireless Bluetooth lock control system enables secure and convenient access management without the need for additional wiring. Its operation is based on wireless communication between the lock and a smart device (smartphone or tablet) via the **Oly-SmartKey** application.

The system operates locally via Bluetooth and does not necessarily require an internet connection, ensuring reliable operation and enhanced data protection.

Users can lock and unlock the door in real time, manage access permissions, and—depending on the system configuration—monitor entry history. The Bluetooth connection provides a high level of security, while installation is simple and fast, making the system suitable for residential properties, offices, hotels, and commercial premises.

The **Oly-SmartKey** application is a cross-platform solution designed for the management of smart locks, reservations, and access control in hospitality or professional property environments.

The application is intended for registered and authenticated users who are assigned different roles and permission levels depending on their function within the system.

Oly-SmartKey provides:

- Simplified management of smart devices
- Enhanced security for property owners and guests
- Real-time control of reservations and access

It is a comprehensive tool for professionals operating in the hospitality and property management sectors, offering security, automation, and operational efficiency in daily management activities.

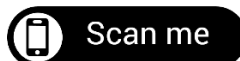
The main application functions are:

- **Smart Lock Management**
 - Users assigned the **Owner** role can add new smart locks to the system.
 - Users assigned the **Owner** or **Manager** role can configure lock settings, perform firmware updates, and remotely unlock doors via the **Oly-SmartKey** application.
- **Reservation Management**
 - Users assigned the **Owner** or **Manager** role can create, edit, or delete reservations for end users.
- **Cleaner Access**
 - Users assigned the **Cleaner** role have restricted permissions and are authorized only to unlock doors.

Note: User roles described above are defined and managed by the Owner through the [Web Management Interface \(Web UI\)](#).

Application Download

To download the **Oly-SmartKey** application, scan the QR code below using your mobile device. The application is available for both **Android** and **iOS** operating systems.

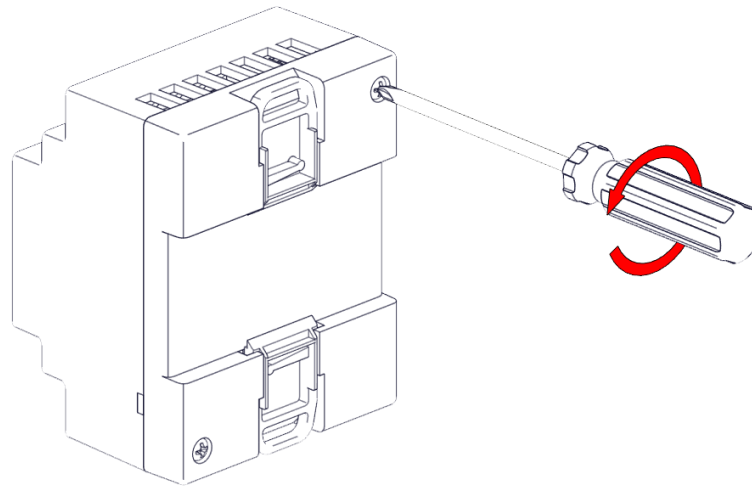




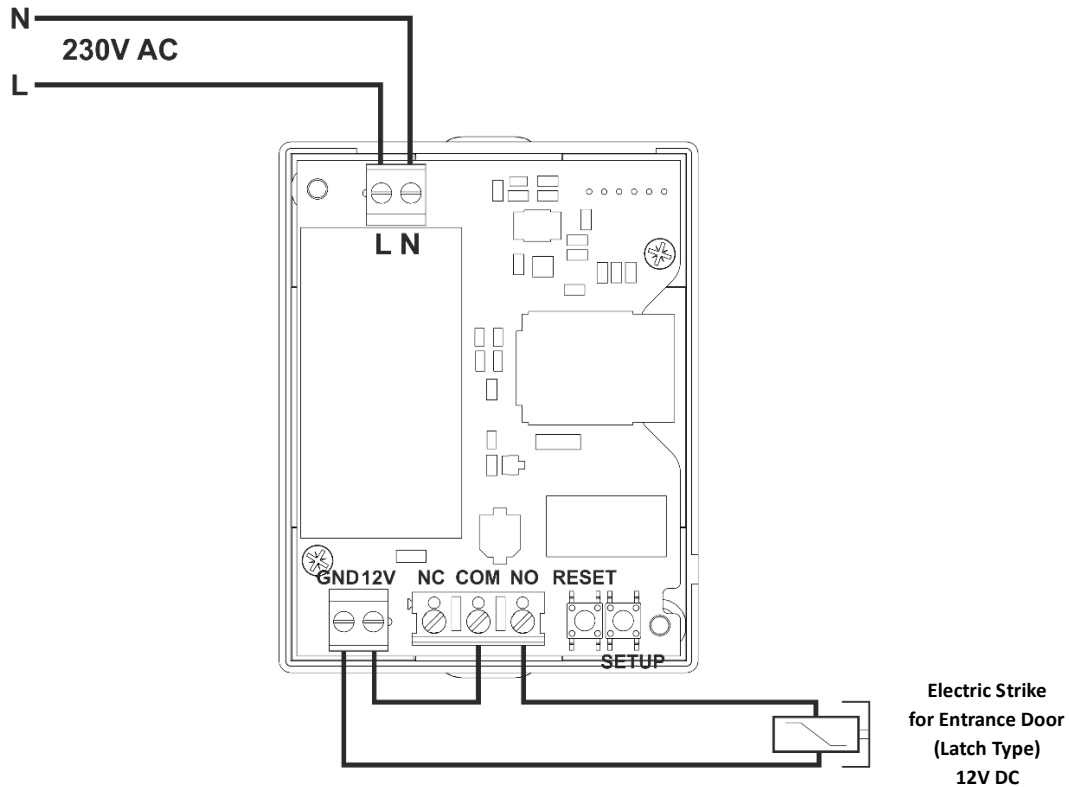
2. Installation of the RF-90 Device

The RF-90 device is suitable for installation on a DIN rail inside any electrical distribution board. The connection procedure of the device is described below.

Step 1. Unscrew the device cover.



Step 2. Make the connections according to the wiring diagram below.

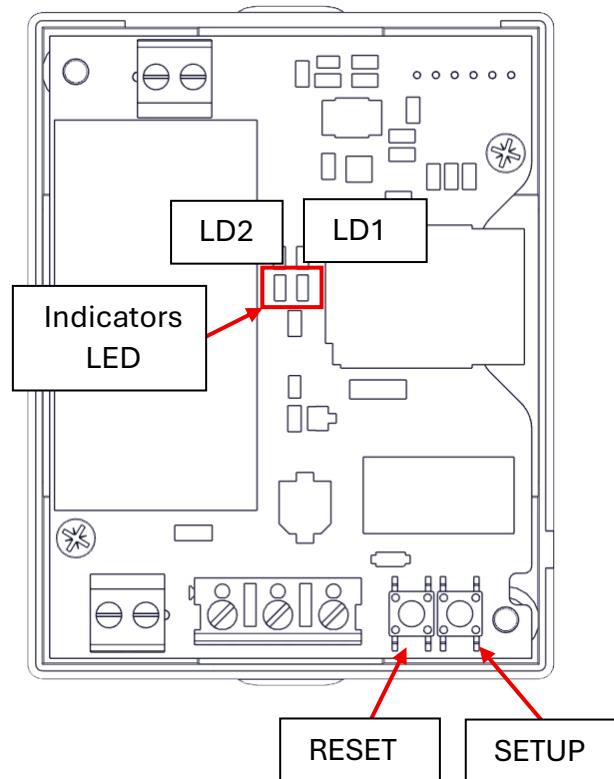


Step 3. Leave the device cover open until the connection with the application is completed, as you will need to press the buttons located on the PCB.

Step 4. After completing the connection of the device to the application, refit the cover, tighten the screws securely, and install the device inside the electrical distribution board.



2.1 Explanation of RF-90 Device Buttons / Indicators



The RF-90 device is equipped with two buttons with the following functions:

- **Reset:** A short press restarts the device.
- **Setup:** A short press places the device into configuration mode. The red LED indicator (LD2) starts flashing rapidly.
- To exit configuration mode, press and hold the **Setup** button until the red LED stops flashing. The red LED will then remain steadily ON for 5 seconds and will subsequently start flashing slowly, confirming normal operation.

Note: For device programming, it is recommended to first press the **Reset** button. Once the red LED indicator turns ON, press the **Setup** button.

LD2 (Red LED Indicator)

- **OFF:** No power supply to the device.
- **Flashing slowly:** The device is operating normally.
- **Flashing rapidly:** The device is in configuration mode.

LD1 (Green LED Indicator)

- **ON:** Illuminates when the lock is released (unlocked).

3. Explanation of Screens and Menu Structure

3.1 Home Screen / Login / Registration

When you open the application for the first time, the Home Screen will be displayed. From here, you can either log in or create a new account.

If you already have an account, log in by entering your credentials: Username (email) and password (see Figure 1).

If you do not have an account, select **“Sign up now”**. A new screen will appear where you must fill in the registration fields: First Name, Last Name, Email, and Password (see Figure 2).

If you have created an account and have forgotten your password, select **“Forgot Password?”**. A new window will appear asking you to enter your email address. Then, check your email and follow the password reset instructions (see Figure 3).

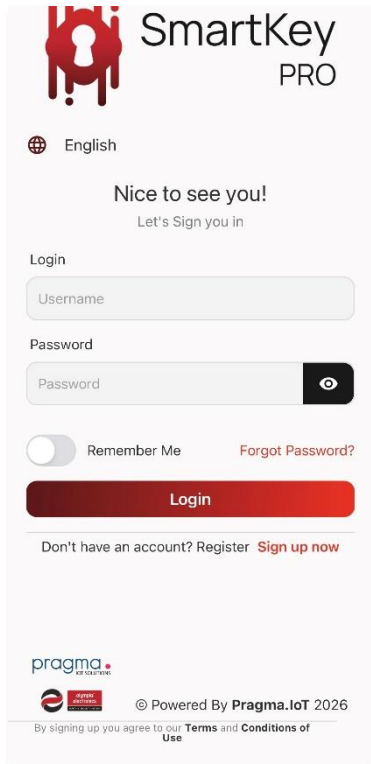


Figure 1

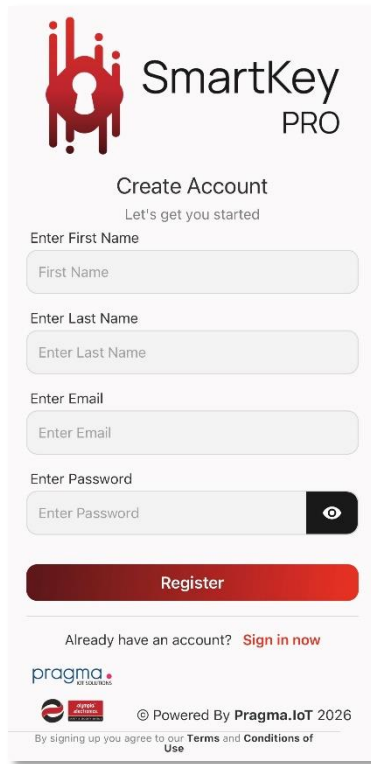


Figure 2

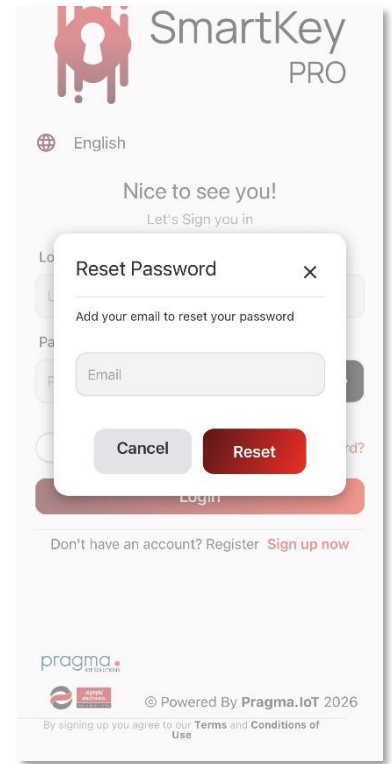


Figure 3

3.2 Side Menu

After successful login, the user can navigate through the application using the side menu, which provides access to the main application functions.

The available options are as follows:

- **My Locations:** View and manage registered locations.
- **Add Smart Lock:** Available only to users with the Owner role; allows the addition of new devices or locations.
- **Reservations:** Accessible to users with the Owner and Manager roles for creating and managing reservations.
- **Settings:** Configure application parameters and manage the user account.
- **Information:** Display information about the application and the version in use.
- **Logout:** Log out the user.

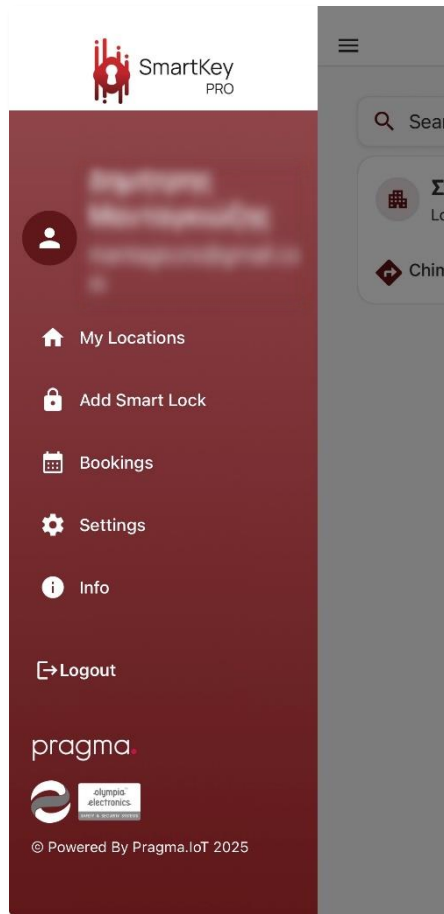


Figure 4

3.2.1 My Locations

In the My Locations section, users with the Owner role can view all the locations they have created (see Figure 5).

Note: Users with the Manager or Cleaner role have access only to the locations for which they have been granted access rights, and only for the duration that such access is valid.

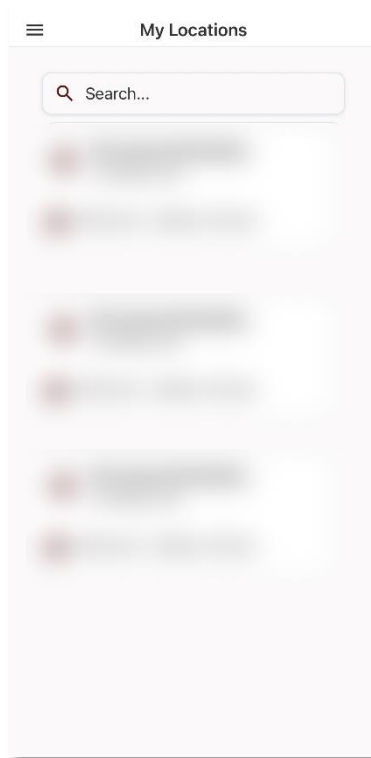


Figure 5

By selecting a location, the Areas created within it are displayed (see Figure 6).

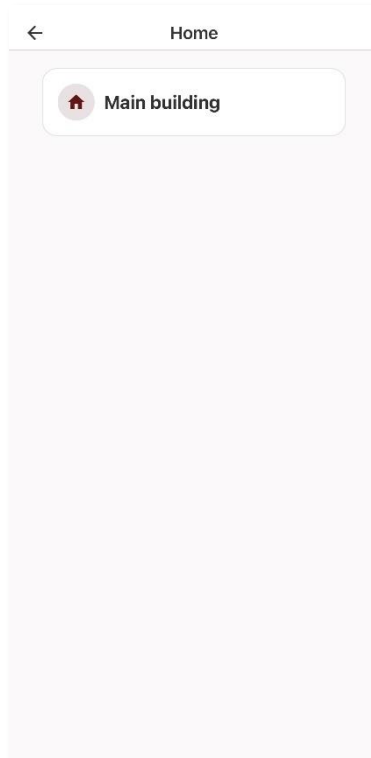


Figure 6

Next, by selecting an Area, the Doors that have been added are displayed. The user can manage them according to their assigned permissions.

The Owner and the Manager have the ability to unlock doors, modify their settings, and perform firmware updates (*see Figure 7*).

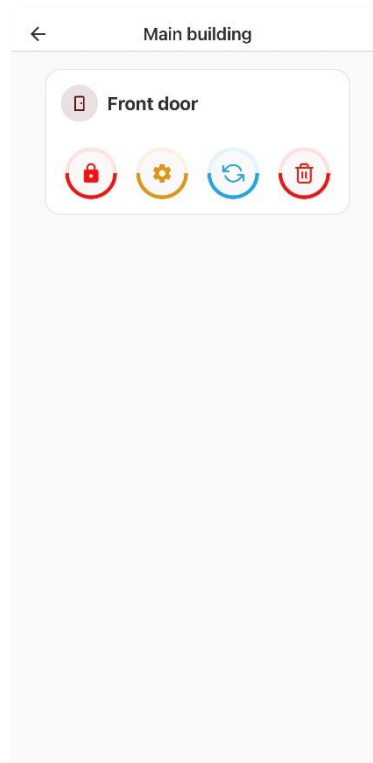


Figure 7

- By pressing the lock icon, the corresponding lock is locked or unlocked.
- By pressing the gear icon, a new window appears (*see page 10*), allowing you to configure advanced lock settings. Figure 8 presents and explains the lock parameters that can be modified. The device must be in configuration mode ([see Section 2.1, page 5](#)).
- By pressing the arrows icon, the lock firmware is updated. The device must be in configuration mode ([see Section 2.1, page 5](#)).
- By pressing the bin icon, the lock for the specific door is deleted from the application ([see Section 2.1, page 5](#)).



By pressing the gear icon, the following settings for the specific lock are displayed. These settings are described below.

- **Mode**

- **Online:** This setting is factory default and is recommended for proper device operation.
- **Offline:** Not used (reserved for future use).

- **Timeout (seconds)**

Defines the maximum time the application has to respond to the lock challenge.

If no response is received within this time interval, the unlocking process is canceled and a new security code (RND_PS) is generated.

- **RSSI Threshold (dBm)**

Defines the required Bluetooth signal strength to allow the lock to be unlocked.

The lower the value set, the closer the user must be to the lock for unlocking to occur. The adjustable range is from -30 to -100 (maximum range).

- **Maximum Attempts**

Defines how many failed connection attempts are allowed before the lock disconnects from the application.

A failed attempt is considered only when an incorrect security response is provided, not when the waiting time expires.

- **Unlock Time (seconds)**

Defines the duration for which the lock remains unlocked after activation.

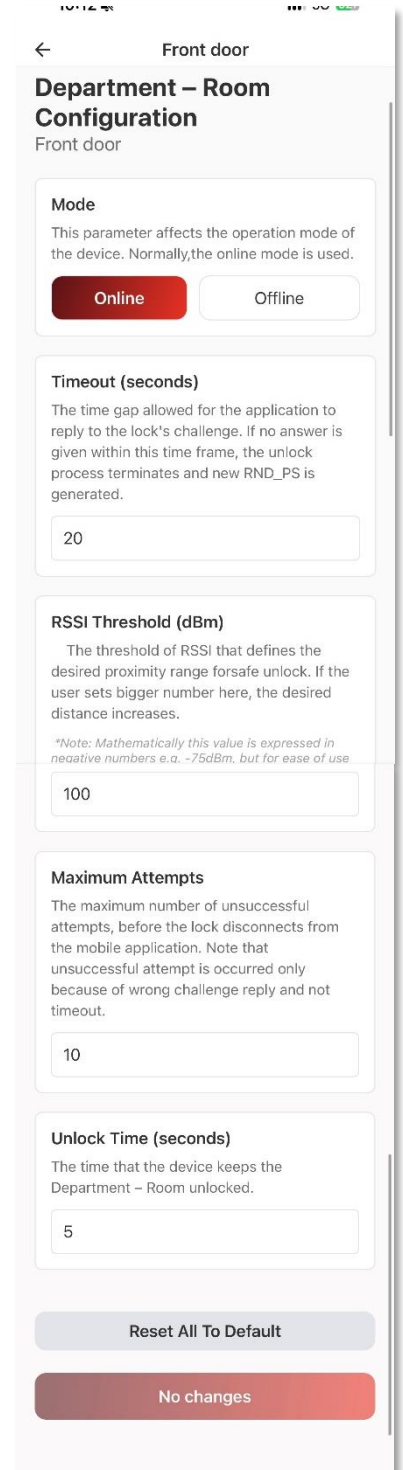


Figure 8

3.2.2 Add Smart Lock

To create a new smart lock, select “**Add Smart Lock**” from the side menu. In this function, the Owner can add a new lock to the system.

First, the basic lock details are entered. Then, the user selects or creates the location to which the lock will be assigned, followed by selecting or creating the corresponding area. Finally, the process is completed by defining the apartment to which the device will be assigned. The above procedure is described in detail below.

ATTENTION! To start the new lock registration process, the RF-90 device must first be in Setup mode. To enter this mode, press the Reset button and then, once the red LED indicator turns ON, press the Setup button (see Section 2.1, page 5).

First, to add a new lock, you must define a name for the lock, e.g., “Main Entrance” (see Figure 9). After entering the name, press the “Next” button to proceed to the next step of the process.

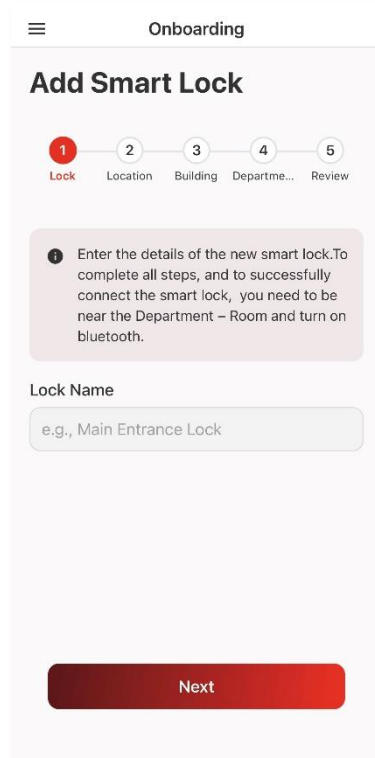


Figure 9

Next, select an existing location or create a new location where you want to add the lock. To create a new location, press the “+ **Create New Location**” button.

If you choose to create a new location, the corresponding window will appear, where you must enter the required details. To create a new location, provide a name, add a description (optional), and enter the location address.

After completing the process, press “**Create Location**” to save the new location (*see Figure 10*).

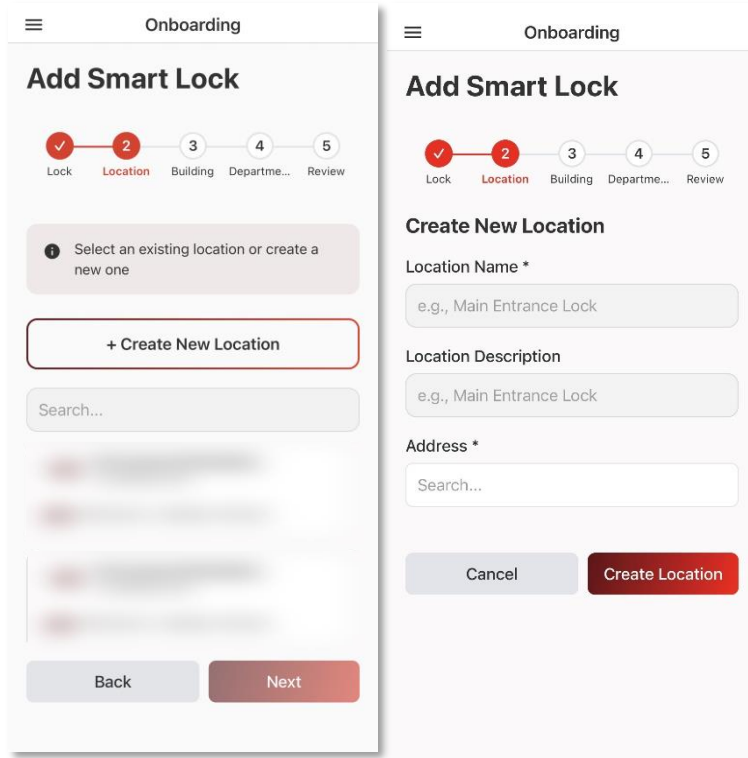


Figure 10

Next, either create a new building or select an existing one to which you want to add the lock. Enter a name for the new building and then click “Next” (*see Figure 11*).

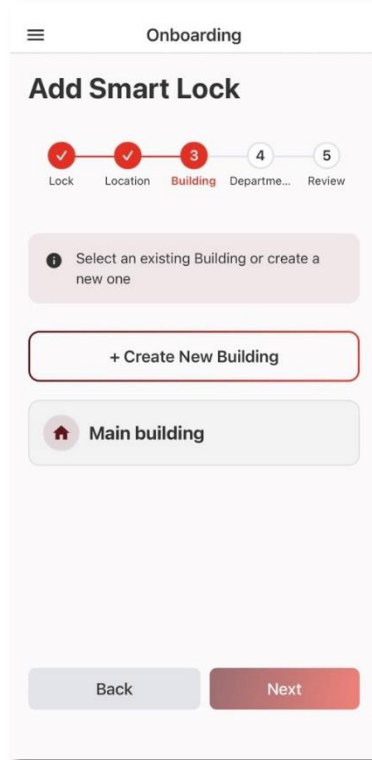


Figure 11

Next, either create a new department – room or select an existing one to which you want to add the lock. Enter a name for the new department – lock and then click “Next” (*see Figure 12*).

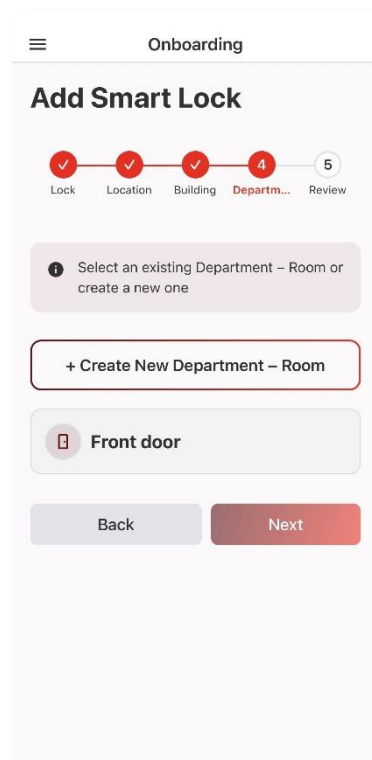


Figure 12

After completing the entire process, a window will appear displaying in detail all the selections you have made for creating the lock (*see Figure 13*). If you believe that all steps have been completed correctly, press the **“Submit”** button.

After submission, a message will appear informing you whether the process was successful or unsuccessful.

Note! Before pressing **“Submit”**, ensure that the device is in Setup mode and that the red LED indicator is flashing.

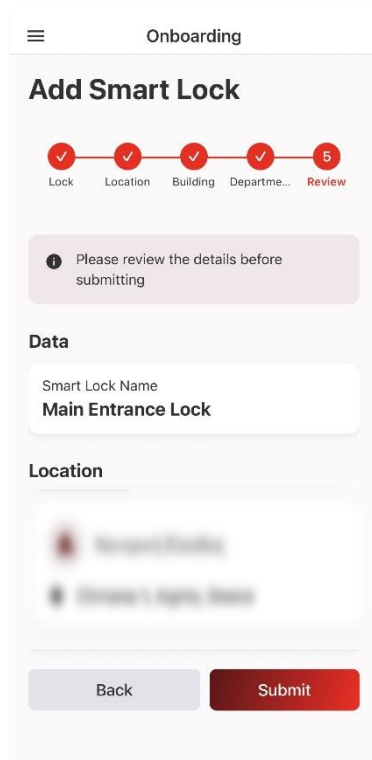


Figure 13

3.2.3 Bookings

To create a new booking, select **“Bookings”** from the side menu. A new window will then appear, displaying all active bookings, upcoming bookings, and the booking history for the specific account (see *Figure 14*).

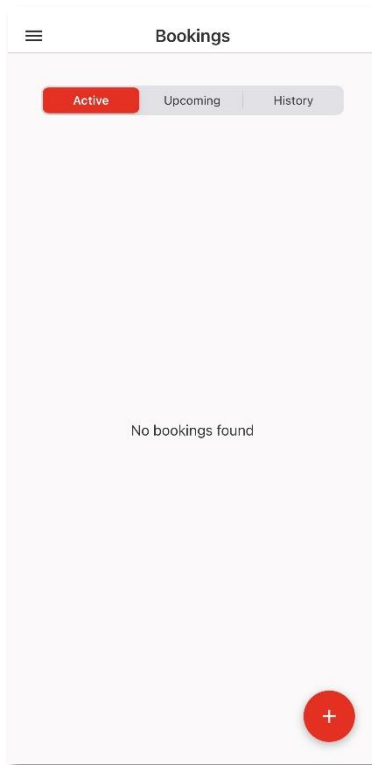


Figure 14

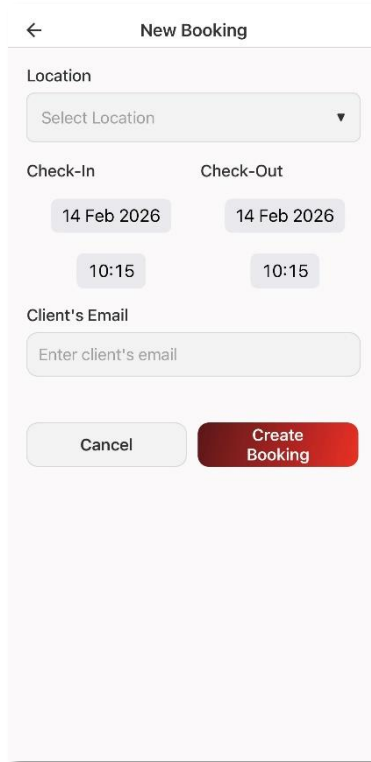


Figure 15

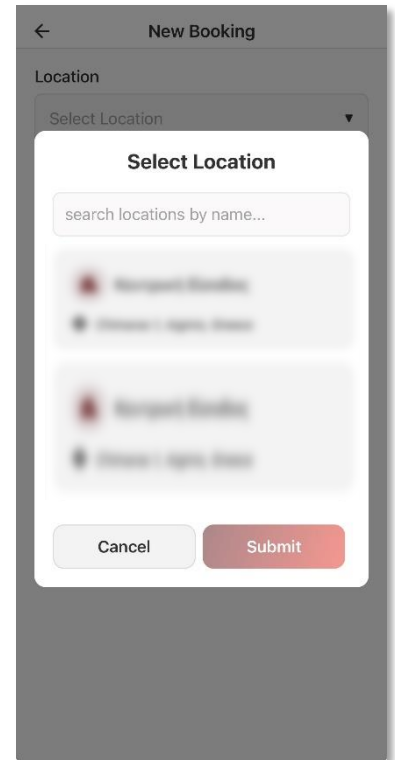


Figure 16

In the window that appears, you must complete the following details:

- Location:
 - Once selected, a new window will open (see *Figure 16*), where you must choose one of the locations you have already registered in the system. After selecting it, press the **“Submit”** button. You will then be prompted to select the apartment/room.
- Check-In Date and Time
- Check-Out Date and Time
- Client’s Email

After entering all the required information, press the **“Create Booking”** button. The reservation details and the lock unlocking procedure will be sent to the customer’s email address.

3.2.4 Settings

To access the Settings menu, select “**Settings**” from the side menu (see Figure 17).

On the Settings screen, the user has the ability to:

- Change their account password.
- Change the application display language. The available languages are Greek and English.
- Change the application theme (Light or Dark).
- View the technical support contact details.
- Rate the application.
- Delete their account.
- Log out of their account.

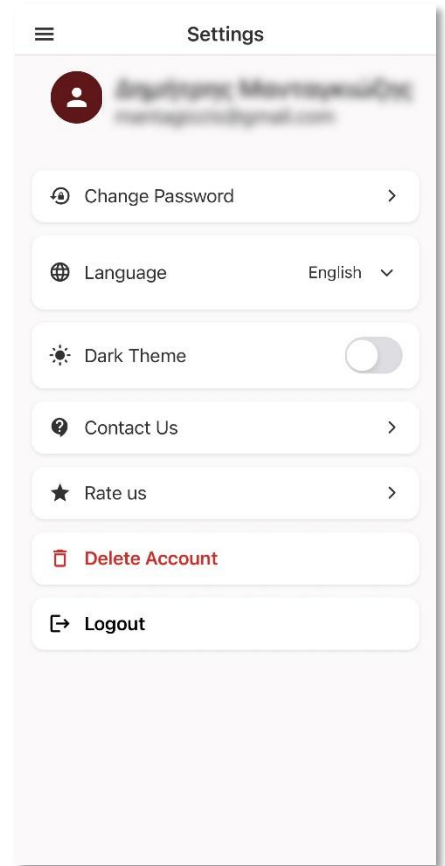


Figure 17

3.2.5 Info

To access the Information menu, select “**Info**” from the side menu. This menu displays application information (see Figure 18).

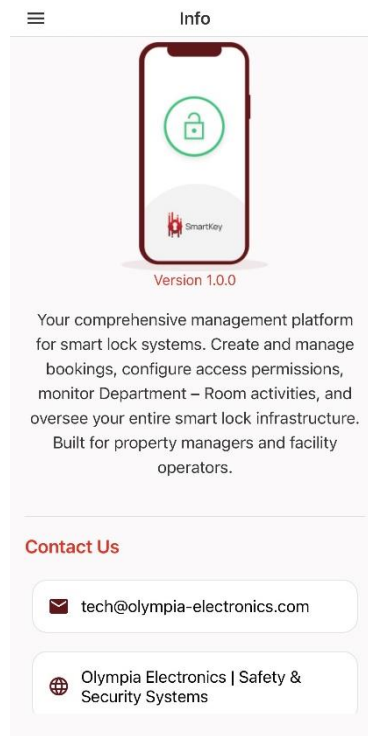


Figure 18

4. Web UI

The lock owner has the ability to manage locks and reservations through the Olympia Electronics Web UI for the RF-90 device.

Access to the Web UI is provided via the following address:

<https://smartkey.olympia-electronics.com/auth/login>

Figure 19 shows the Web UI login page. By entering your login credentials (email and password), you can access your account.

Additionally, from the same page you can perform the following actions:

- Change the interface theme (Light/Dark)
- Change the interface language (EL/EN)
- Create a new account
- Reset your password
- Download the Oly-SmartKey application

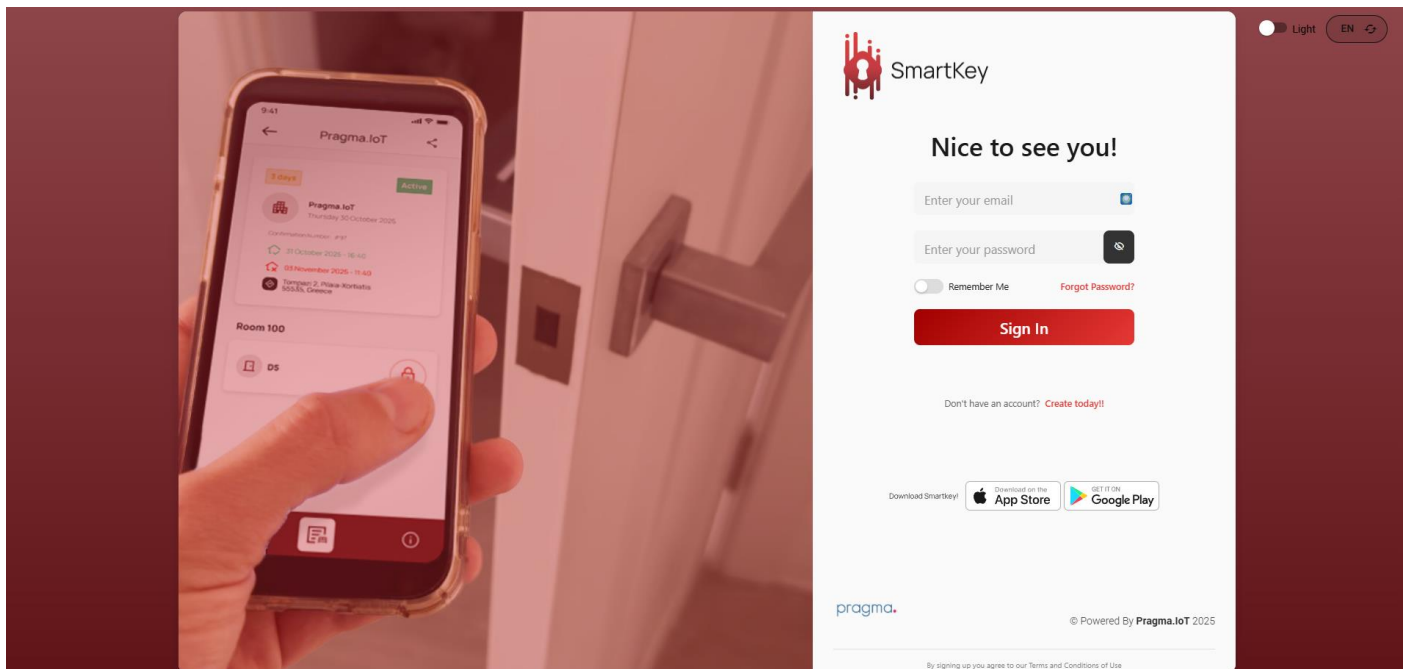


Figure 19

4.1 Web UI Overview

The left navigation menu provides quick access to the main system sections:

- Overview
- Bookings
- Administration
- Assignments

4.1.1 Overview

The SmartKey web management interface provides the user with a comprehensive overview of system operation, allowing real-time monitoring of reservations, customers, and devices.

On the main Overview page, summary statistics are displayed for the selected time period and location, such as:

- Active bookings
- Active clients
- Upcoming bookings
- Total clients
- Total bookings
- Inactive bookings

The user can apply filters based on date range and location to display the desired data.

In addition, graphical representations are provided for:

- The distribution of Smart Locks per location
- The room reservation trend over time

Through the Web UI, the administrator has a complete view of system operation and can efficiently manage the locks and reservations of their facilities.

The image below illustrates all the above.

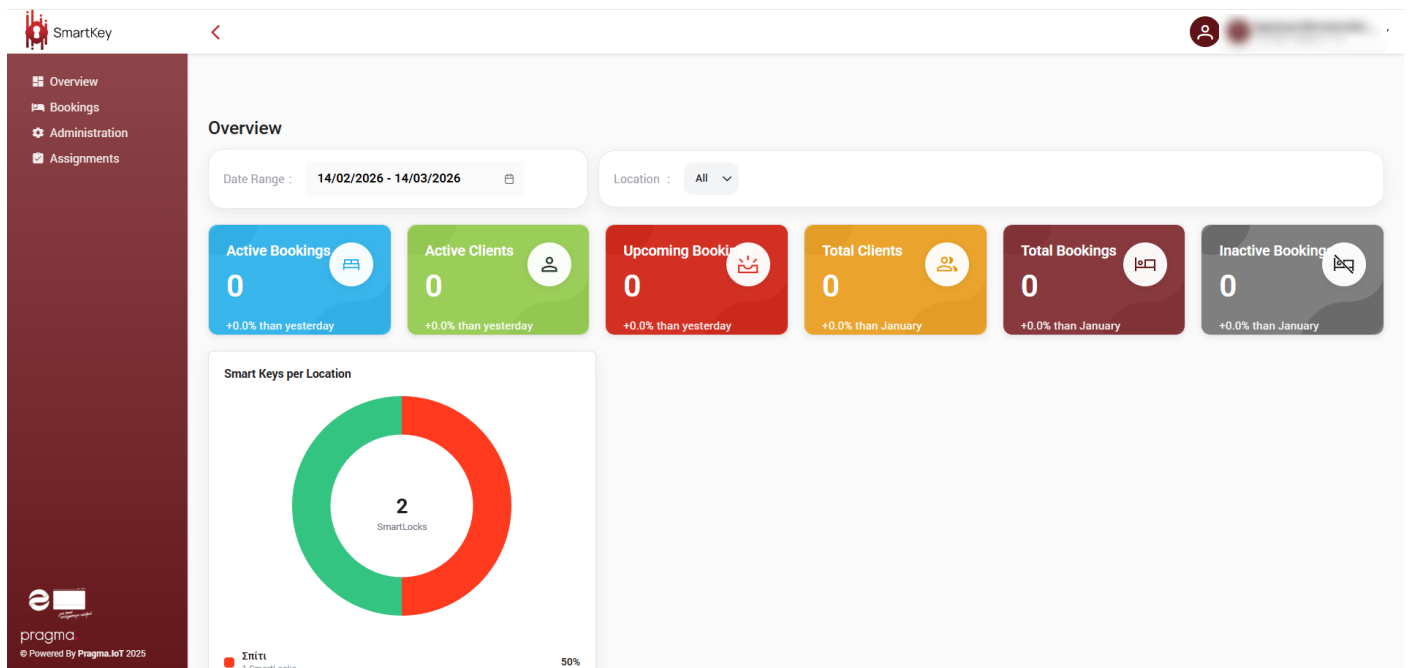


Figure 20



4.1.2 Bookings

The **Bookings** section allows the management of all reservations registered in the system, as well as the creation of new reservations through a simple and guided process.

From the left menu, select **Bookings** to navigate to the corresponding page. At the top of the screen, two tabs are provided (*see Figure 21*):

- **Upcoming:** Displays future bookings.
- **All Bookings:** Displays all registered bookings.

In the **All Bookings** tab (*Figure 22*), bookings are displayed in table format with the following information:

- Location
- Check-In Date
- Check-Out Date
- Customer Details
- Management Options

Within this tab, you are also given the option to make a new reservation. The reservation process is described below.

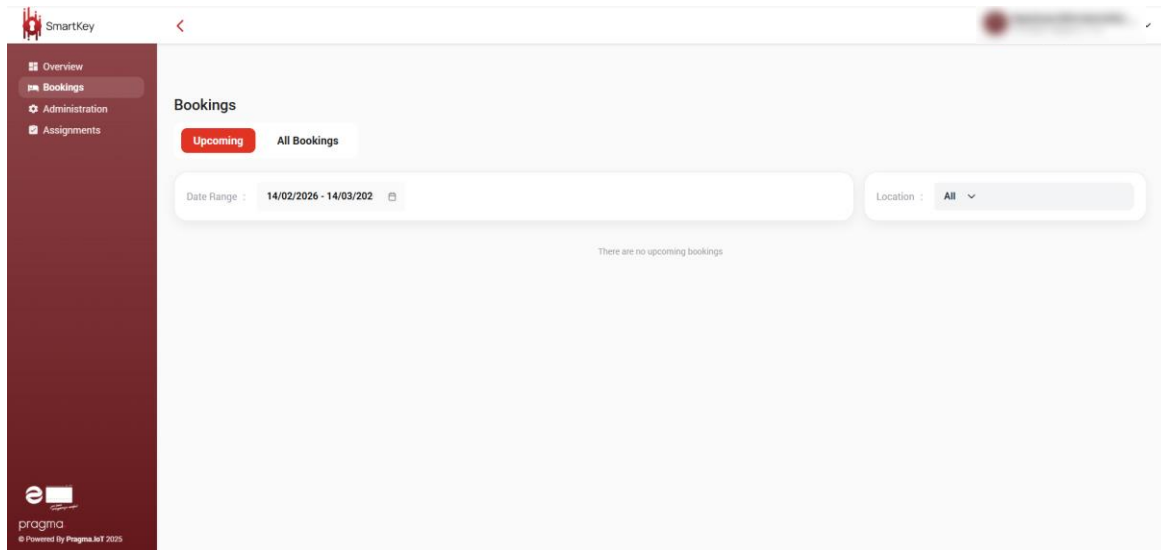


Figure 21

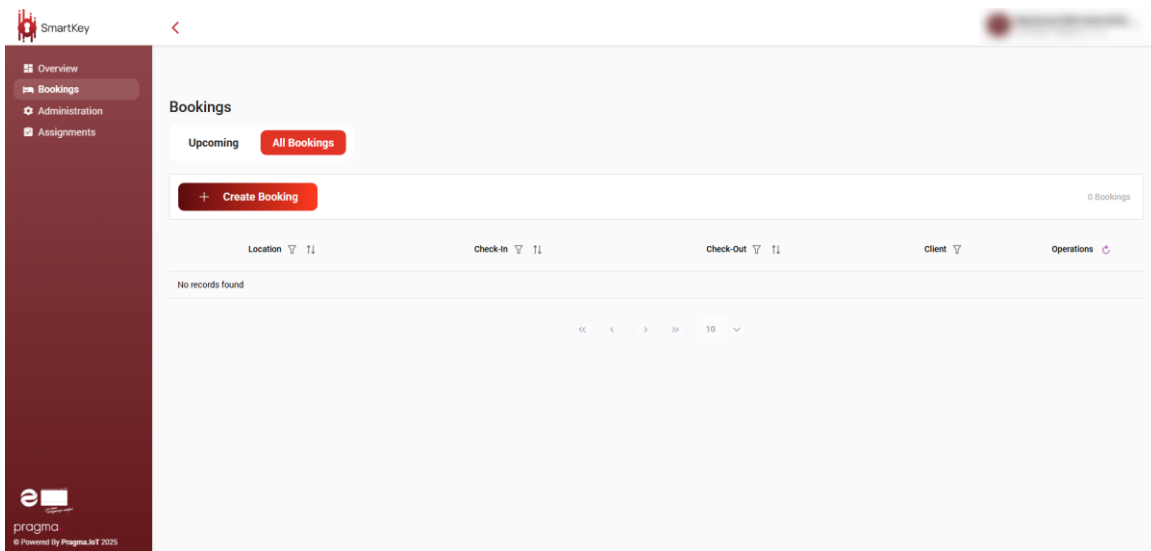


Figure 22

4.1.2.1 Create new booking

To create a new booking, click the “**Create Booking**” button. The process is completed through a four-step wizard:

- 1. Location:** Select the location to which the reservation applies and then click “**Next**” (see Figure 23).

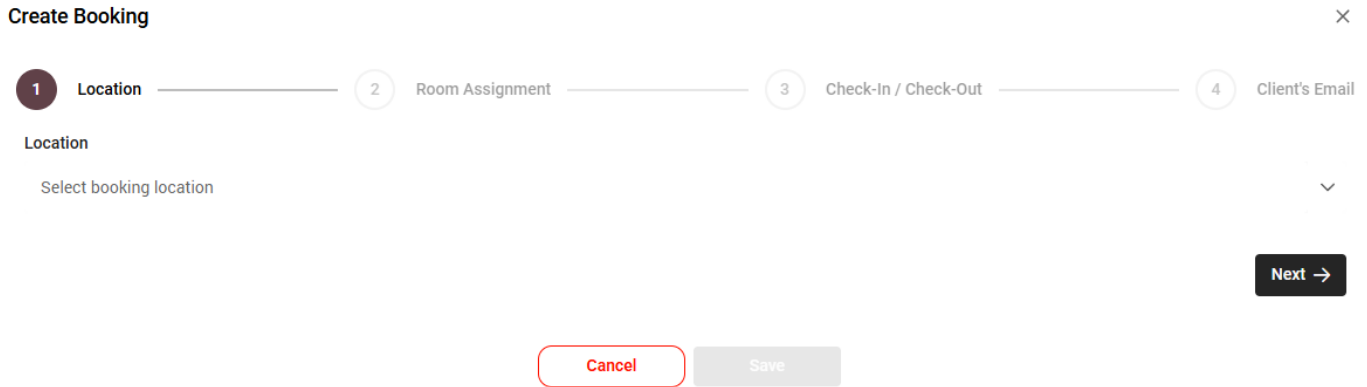


Figure 23

- 2. Room Assignment:** Select the room or rooms to be assigned to the specific reservation and then click “**Next**” (see Figure 24).

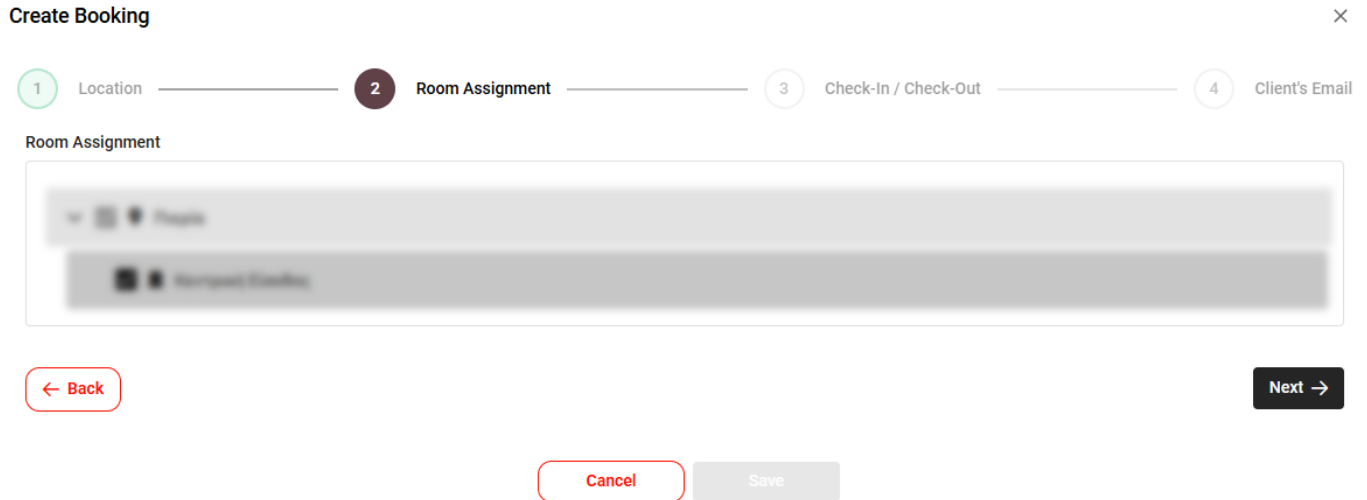


Figure 24

3. Check-In / Check-Out: Set the customer’s arrival date and time (Check-In) and departure date and time (Check-Out) using the calendar, and then click **“Next”** (see *Figure 25*).

Create Booking ×

1 Location ————— 2 Room Assignment ————— 3 **Check-In / Check-Out** ————— 4 Client's Email

Check-In / Check-Out

February 2026 < >

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

^ ^
 11 : 59
 v v

Figure 25

4. Client’s Details: Enter the client’s email address, as well as their first and last name, and then click **“Save”** (see *Figure 26*).

Create Booking ×

1 Location ————— 2 Room Assignment ————— 3 Check-In / Check-Out ————— 4 **Client's Email**

Client's Email

Client's Firstname Client's Lastname

← Back
Cancel
Save

Figure 26

5. Upon completion of all steps, the reservation details and the lock unlocking procedure will be sent to the customer’s email address.

4.1.3 Administration

The **Administration** section of the SmartKey web interface allows the administrator to organize and configure the structure of the accommodation, its doors, and the system’s smart locks. The section consists of four main tabs (*see Figure 27*):

1) Sites

The sites tab displays a list of all registered sites in the system.

For each site, the administrator can:

- Add a new site using the “**Add Site**” button.
- View, edit, or delete existing site through the management options.

2) Areas – Rooms

The Areas – Rooms tab includes all areas belonging to the registered locations (e.g., rooms, apartments, common areas).

For each area, the administrator can:

- Add a new Area – Room using the “Add Area – Room” button.
- View, edit, or delete existing areas – rooms through the management options.

3) Doors

The Doors tab includes all doors registered in the system.

For each door, the administrator can:

- Add a new door using the “**Add Door**” button.
- Edit or delete existing doors.

4) Smart Locks

The Smart Locks tab displays all locks connected to the system.

For each smart lock, the administrator can:

- View the lock details.
- Modify its settings.
- Manage its connection to the corresponding doors and areas.

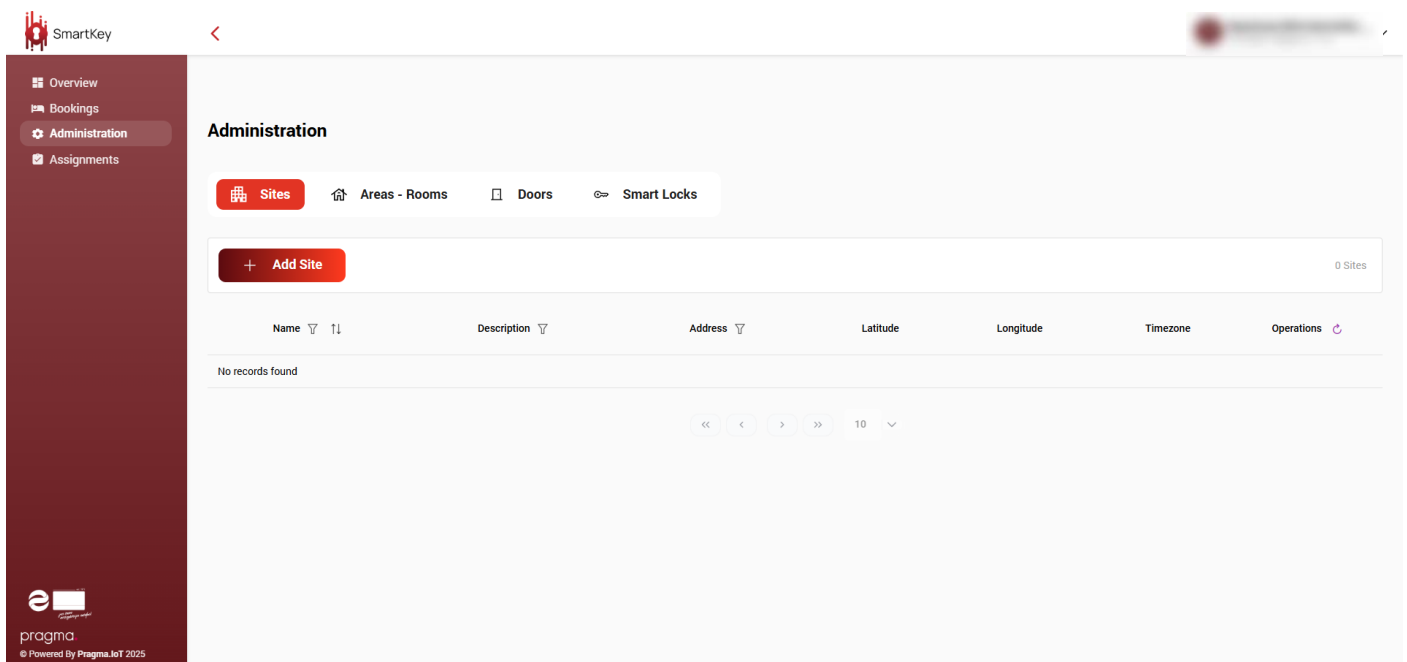


Figure 27



4.1.4 Assignments

The **Assignments** section allows the management of user access rights to specific locations for a predefined period of time. Through this section, the administrator can define which users have access to each location and for how long. The main user roles are: Owner, Asset Manager, and Cleaner.

Note! This menu is available only in the Web UI and not in the mobile application.

4.1.4.1 User Roles and Permissions

The system supports different user roles, which define access and management permissions within the Web UI and the Oly-SmartKey PRO application.

1. Owner

The Owner role has full system management permissions. Specifically, users with the Owner role can:

- Add new smart locks to the system
- Configure lock settings
- Perform firmware updates
- Remotely unlock doors through the Oly-SmartKey PRO application
- Create, edit, and delete reservations for end users
- Manage all system functions

2. Asset Manager

The Asset Manager role has extended management permissions. Users with the Asset Manager role can:

- Configure lock settings
- Perform firmware updates
- Remotely unlock doors through the Oly-SmartKey PRO application
- Create, edit, and delete reservations
- Support the operation and maintenance of the system

3. Cleaner

The Cleaner role has limited access permissions. Users with the Cleaner role can exclusively:

- Unlock doors for cleaning purposes
- This role does not have access to system settings, reservations, or administrative functions.



4.1.4.2 Add Assignment

To create a new assignment, click the “Add Assignment” button.

The Create Assignment window will appear, where you must complete the following details (see Figure 28):

Figure 28

- **Location:** Select the location where the assignment will apply.
- **Start Date:** Set the date from which the assignment will become active.
- **End Date:** Set the date until which the assignment will remain valid.
- **User Role:** Select the user’s role from the available list. The available roles include: Asset Manager or Cleaner.
- **User Email:** Enter the user’s email address.
- **First Name:** Enter the user’s first name.
- **Last Name:** Enter the user’s last name.

After completing all fields, click “Save” to register the assignment or “Cancel” to cancel the process.

5. Technical Specifications Table

RF-90	
Supply Voltage	230V AC
Standby Consumption	10mA
Application	Indoor use
Enclosure Protection Rating (IP)	IP20
Operating Temperature Range	-10 °C έως 60 °C
Relative Humidity	Μέχρι 95%
Housing Material	ABS/PC
Housing Color	White (RAL9010)
External Dimensions (H × W × D)	71 x 90 x 59 mm
Typical Weight	160 g
Warranty	2 years

6. Terms of sales – Technical support

Scan the QR Code below to view the terms of cooperation or access the technical support portal.



72 km Old National Road Thessaloniki Katerini
 Postal code 60 300, P.O.Box 06
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