



# U-PROX KEYPAD G4

Wireless touch keypad



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## Introduction

This manual describes how to install and configure the wireless keypads

UProx Keypad G4. Please read this manual carefully before using the device.

Technical support for all U-Prox products is provided by phone: +38(091)481-01-69 and/or e-mail: [support@u-prox.systems](mailto:support@u-prox.systems).

## Security warnings

**WARNING. THE APPLIANCE HAS A BUILT-IN BATTERY. SUBSTITUTING AN INCORRECT TYPE OF BATTERY FOR THE APPLIANCE MAY RESULT IN A FIRE OR EXPLOSION. DISPOSE OF USED BATTERIES IN ACCORDANCE WITH LOCAL LAWS AND REGULATIONS.**

**DO NOT USE SALT BATTERIES (R03)! WE STRONGLY RECOMMEND USING LITHIUM BATTERIES (FR03) OR ALKALINE BATTERIES (LR03)! USE ALKALINE BATTERIES (LR03) ONLY AT TEMPERATURES ABOVE +5°C.**

## Applications for customization

### Mobile application of the installer U-Prox Installer

Application for setting up the U-Prox wireless security system.

It is intended for both individual users and engineers of central monitoring stations.

Using a mobile phone, the application allows you to perform full security system setup: install, test, and calibrate wireless system elements; configure security groups; connect to monitoring stations; add users and grant them the right to control the security system from the U-Prox Home application.



### Installer web portal

The U-Prox Installer WEB web portal is designed to configure the U-Prox wireless security system.

It is intended for both individual users and engineers of central monitoring stations of security organizations.

Using a web browser, you can perform full configuration of the security system: install, test, and calibrate wireless system elements; configure security groups; connect to monitoring stations; add users and grant them the right to control the security system from the U-Prox Home application.



<https://web-security.u-prox.systems/>

## Description and principle of operation

U-Prox Keypad G4 is a wireless keypad designed for arming and disarming, indicating alarms and device statuses, and interacting with the alarm user.

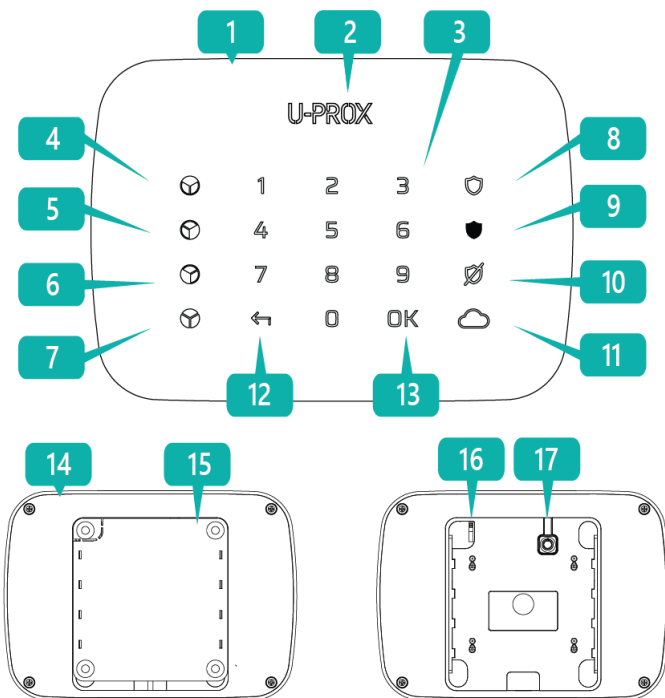
The keypad is installed in a convenient place in the protected premises, near the entrance/exit.

The device interacts with the U-Prox security center via a radio channel at a distance of up to 4800 m.

U-Prox Keypad G4 is powered by four 1.5V AAA (LR03) batteries.

The device works only with the U-Prox security system, it cannot be connected to third-party systems.

### Functional elements of the device



1. Keypad case
2. "U-Prox" indicator
3. Touch surface
4. Indicator button "Group 1"
5. Indicator button "Group 2"
6. Indicator button "Group 3"
7. Indicator button "Group 4"
8. Partial arming button ("Stay arming" or "Night mode")
9. Button "Arming"
10. Button "Disarm"
11. "Information" button with the possibility of reprogramming
12. "Cancel" button
13. "OK" button - additional actions
14. Back plate of the case
15. Mounting plate
16. Tamper contact
17. On/off button

## Features

Length of the keypad code	6 digits
Code "under duress"	automatically, 1 more than the usual code
Blocking during code selection	Yes, after 5 attempts for 10 minutes
Sound indication	Delay on entry, Delay to exit, Alarm
Group management	4
Power	3V, four AAA (LR03) alkaline batteries included
Battery service life	up to 2 years
Radio communication	ISM wireless interface, with multiple channels
Radio communication parameters	ITU region 1 (EU, UA): 868.0...868.6 MHz, 100 kHz bandwidth, 20 mW max, distance to the security center - up to 4800 m (in open space); ITU region 3 (AU): 916.5...917 MHz, 100 kHz bandwidth, 20 mW max, distance to the security center - up to 4800 m (outdoors).
Data transmission (radio)	Two-way communication, encrypted, with sabotage (jamming) detection. The encryption key is 256 bits
Operating temperature range	-10°C ... +55°C
Permissible humidity	up to 75%
Climate class	II (EN 50131)
Overall dimensions of the device	167 x 120 x 15 mm
Case color	white, black
Weight	250 grams

## Power supply

The device is powered by four AAA batteries (LR03).






## Indication

LED indicators on the keypad show the current status of the device and security groups:






**U-PROX** The 'U-Prox' indicator flashes - the user is not authorized, enter the code or present the card for authorization.

**U-PROX** The 'U-Prox' indicator is on - user is authorized






The group indicators (4, 5, 6 or 7) light up red - the corresponding group is under protection or under "Guard, stay" (Night mode)

-  Group 1 is under protection
-  Group 2 is under protection
-  Group 3 is under protection
-  Group 4 is under protection
-  All groups are under protection

The group indicators (4, 5, 6 or 7) light up green – the relevant group is ready for staging

-  Group 1 is ready to be armed
-  Group 2 is ready to be armed
-  Group 3 is ready to be armed
-  Group 4 is ready to be armed
-  All groups are ready to be armed

The group indicators (4, 5, 6 or 7) light up yellow – the respective group is not ready for to be armed

-  Group 1 is not ready to be armed
-  Group 2 is not ready to be armed
-  Group 3 is not ready to be armed
-  Group 4 is not ready to be armed
-  All the groups are not ready for the production

**Group indicators (4, 5, 6 or 7) flash yellow** – there is a malfunction in the group



Group 1 - there is a malfunction in the group



Group 2 - there is a malfunction in the group



Group 3 - there is a malfunction in the group



Group 4 - there is a malfunction in the group



Malfunction in all groups

**The group indicator (4, 5, 6, or 7) blinks green and the keypad beeps briefly** – there is a delay in exiting the group



Group 1 - there is a delay in exiting the group



Group 2 - there is a delay in exiting the group



Group 3 - there is a delay in exiting the group



Group 4 - there is a delay in exiting the group

**The group indicator (4, 5, 6, or 7) flashes amber and the keypad beeps briefly** – there is a delay in exit



Group 1 - there is a delay in entering the group



Group 2 - there is a delay in entering the group



Group 3 - there is a delay in entering the group



Group 4 - there is a delay in entering the group

**Group indicators (4, 5, 6 or 7) flash red** – there is a security or system alarm in the group



Group 1 - there is an alarm in the group



Group 2 - there is an alarm in the group



Group 3 - there is an alarm in the group



Group 4 - there is an alarm in the group



Malfunction in all groups

If it sounds like **long beep when you press any button** – the keypad is locked because the code was entered incorrectly 5 times in a row

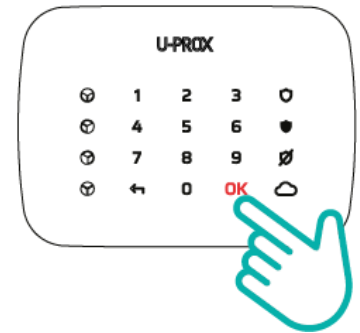
## Working with the keypad

To save battery power when the keypad is not in use, the display turns off.

To turn on the display, press the OK button.

Codes and commands are entered by pressing the buttons on the keypad sequentially. Pressing any button is confirmed by a short beep. When entering any command, do not press two or more buttons simultaneously.

For authorization, the user can use a code entered from the keypad.




### Activating the keypad

To turn on the display, press the "OK" button.

After activating the keypad, the user must log in by entering the code.

### Authorization with a code

The system user can have a keypad code for authorization. The length of the code is 6 characters (digits).

1. Activate the keypad by pressing the "OK" button
2. After activating the keypad, the indicator **U-PROX** is blinking, the system is waiting for you to enter a code or raise an ID.
3. Enter the correct user code, the keypad emits three short beeps
4. If the correct code is entered, the indicator **U-PROX** will light up permanently.
5. If the code is entered incorrectly, the keypad emits a long beep.
6. To cancel the incorrect code, press the button «»

### **ATTENTION! AFTER ENTERING THE WRONG CODE 5 TIMES IN A ROW, THE KEYPAD WILL BE BLOCKED FOR 10 MINUTES**

A "duress code" is automatically created for each user code, which has the same access rights as a regular code, but when entered, a Silent Alarm notification is sent.

The last digit of the duress code is one more than the normal code.

For example, for the code 258238, the forced code will be 258239, and for the code 182479, the forced code will be 182470 (9 + 1 = 0).



## Display and select a group on the keypad

The keypad can operate in two modes:

1. Global mode, after entering the code, the user must enter the number of the group to be managed. The first indicator is used to display the group status.
2. Group binding mode for direct control of these groups. A maximum of 4 groups can be configured to be linked to the corresponding indicator buttons.



## Control examples

### Global mode

### Linking to groups (Group mode)



- |  |  |
|--|--|
| <ol style="list-style-type: none"> <li>1. Activate the keypad by pressing the "OK" button</li> <li>2. After activating the keypad, the indicator <b>U-PROX</b> blinks, the system is waiting for the code to be entered or the ID to be raised</li> <li>3. Enter the code</li> <li>4. The user enters the security group number, for example, 01, 08, 15, 27</li> <li>5. Displays the status of the selected group on the group 1 indicator</li> <li>7. The user performs actions with the selected group</li> <li>8. The user switches between groups by clicking the "OK" button and entering the number of another group</li> </ol> | <ol style="list-style-type: none"> <li>5. The status of the groups assigned to the keypad is displayed on the indicator buttons (4,5,6,7)</li> <li>6. The user switches between groups by pressing the indicator buttons (4,5,6,7)</li> <li>8. The user switches between groups by pressing the indicator buttons (4,5,6,7)</li> </ol> |
|--|--|

## Putting a group under protection

1. Close all protected doors and windows and stop moving in the premises protected by motion detectors
2. Activate the keypad by pressing the "OK" button
3. Log in with the user code
4. Enter the global mode of the keypad:
  - a. Enter the security group number
  - b. View the group status (displayed on the first indicator)
  - c. If the group is ready for arming, click the Arming button 
5. Group mode of keypad operation:
  - d. View the status of groups
  - e. Select the security group to be armed using the indicator button
  - f. Press the "Arming" button 
6. The exit delay will start counting down
7. Leave the room
8. After the exit delay expires, the partition will be fully protected

## Putting the group under protection "I remain"



1. Close all protected doors and windows and stop moving in the premises protected by motion detectors

2. Activate the keypad by pressing the "OK" button
3. Log in with the user code
4. Enter the global mode of the keypad:
  - a. Enter the security group number
  - b. View the group status (displayed on the first indicator)
  - c. If the group is ready for arming, click the "Partial Arming" button  ("Stay Set" or "Night Mode")
5. Group mode of keypad operation:
  - a. View the status of groups
  - b. Select the security group to arm using the indicator buttons
  - c. Click the "Partial arming" button  ("Stay Set" or "Night Mode")
6. The exit delay (if configured) will start counting down
7. After the exit delay expires, the partition will be armed in the Armed, Stay mode. Zones with the "Internal..." type will be skipped and the user will be able to move freely inside the room

### Arming a group with a long press

This mode allows you to arm a person who has not been assigned a code or identifier for any reason.



### ATTENTION! ONLY FOR THE GROUP MODE OF THE KEYPAD

1. Close all protected doors and windows and stop moving in the premises protected by motion detectors
2. Activate the keypad by pressing the "OK" button
3. View the status of the groups
4. Select the security group to be armed using the indicator button
5. Press and hold the Arming button  or "Partial staging"  ("Stay Set" or "Night Mode")
6. The exit delay will start counting down
7. Leave the room
8. After the exit delay expires, the partition will be armed in the selected security mode



### Cancellation of the arming

During the exit delay countdown, arming can be canceled. To do this, activate the keypad and press the "Disarm" button 

### Disarming a group from security protection

1. Enter the premises through the entrance guarded by the Delayed entry zone - the entry delay countdown will begin. After 10 seconds at the latest, the keypad will be activated and the entry delay countdown will start
2. Activate the keypad by pressing the "OK" button
3. Log in with your user code
4. Global mode of the keypad operation:
  - a. Enter the number of the security group
  - b. Click the "Disarm" button 
5. Group mode of keypad operation:
  - a. Select the security group to be disarmed using the indicator buttons
  - b. Click the "Disarm" button 
6. The group will be disarmed. If there was an alarm in the group, it will be canceled

### Canceling the alarm

1. Activate the keypad by pressing the "OK" button
2. Log in with your user code
3. Global mode of the keypad:
  - a. Enter the number of the security group
  - b. Click the "Disarm" button 
4. Group mode of keypad operation:
  - a. Use the indicator buttons to select the security group in which the alarm was triggered
  - b. Click the "Disarm" button 
5. The alarm will be canceled

### Change your own keypad code by yourself

1. Activate the keypad by pressing the "OK" button
2. Log in with your user code
3. Press and hold the "OK" button for about 5 seconds (until the beep)
4. Enter the old user code
5. Enter the new user code
6. Re-enter the new user code
7. The code will be changed

## Installation

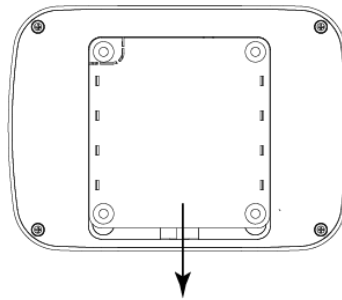
### Selecting the installation location

Choose the location of the keypad carefully; the device should not be placed anywhere:

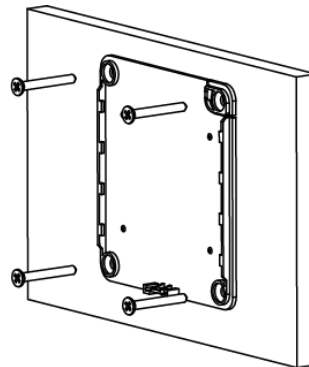
1. Outdoors or in rooms with unacceptable humidity and temperature
2. In places with a high level of radio interference
3. Near objects that can cause radio signal attenuation (metal, mirror, etc.)
4. At a distance closer than 1 m from the security center

### Installation

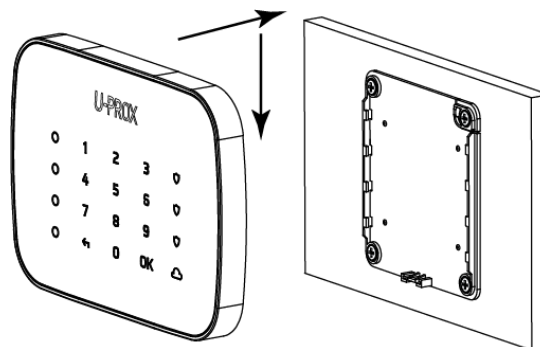
1. Unscrew the locking screw
2. Slide the backplate down and remove the keypad from the mount



3. Mount the backplate on a surface (e.g., wall) at the installation location using the screws and dowels provided




4. Place the keypad on the backplate and slide it down until the tamper switch is locked.



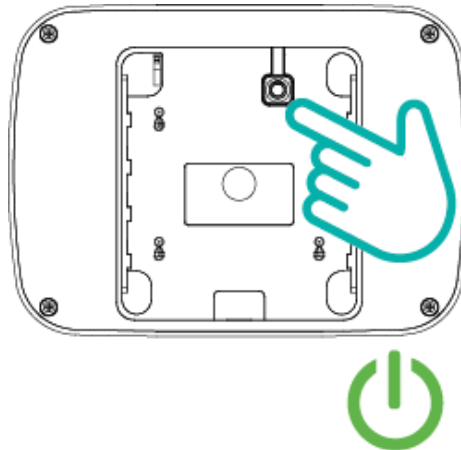
5. Secure the housing with the locking screw

### Turning the device on and off

Press and hold the  (18) for 3 seconds to turn on the device - the light indicator will be on.

If the device has already been registered in the security system, it switches to the standby mode.

To turn off the device, press and hold the button (18) for 5 seconds until the light indication goes out.



**WARNING. IF THE DEVICE HAS NOT BEEN REGISTERED, IT WILL GO INTO SLEEP MODE AFTER 30 SECONDS.**

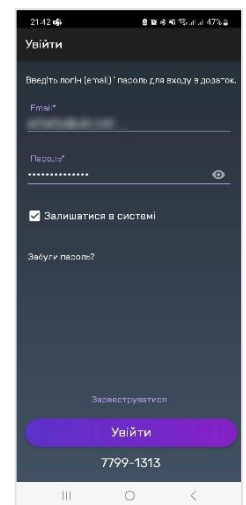
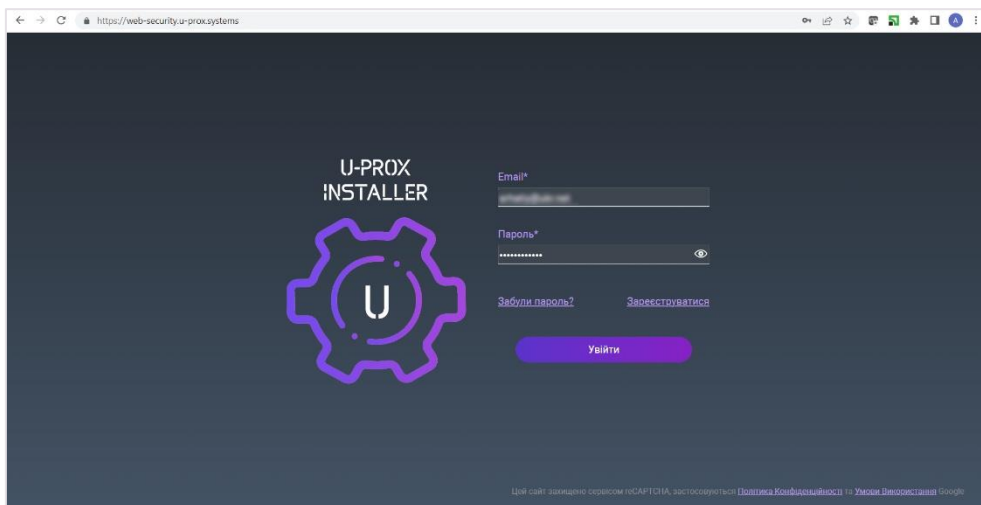
## Settings

1. Download and install the U-Prox Installer mobile application to configure the system
2. Launch the U-Prox Installer application and log in or log in using the U-Prox Installer WEB portal

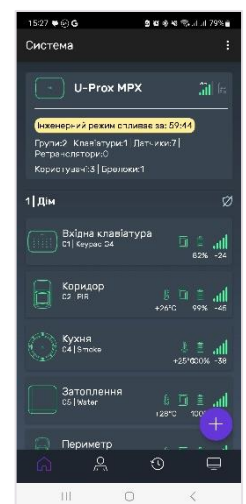
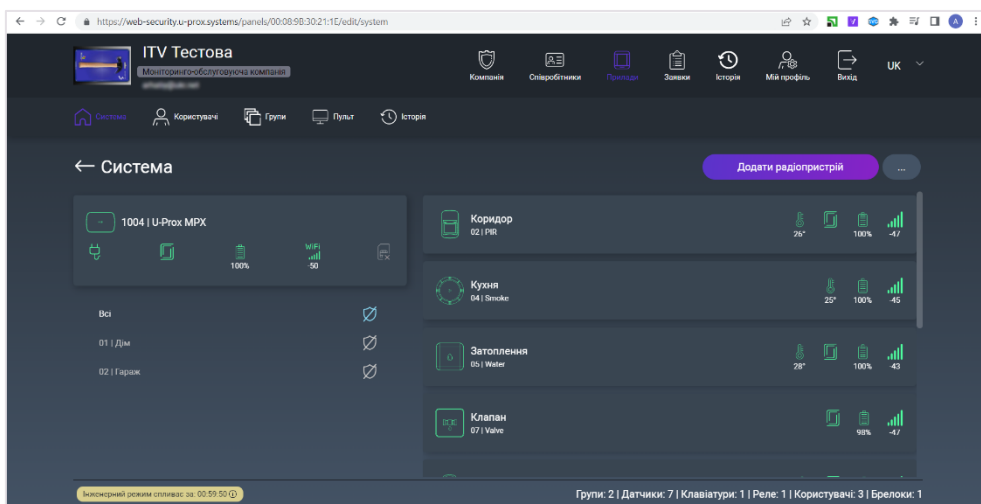
**IF NECESSARY, REGISTER IN THE SYSTEM AS AN AUTONOMOUS INSTALLER OR GET ACCESS AS AN INSTALLER OF A SECURITY COMPANY**

### Adding a device to the security system (registration)

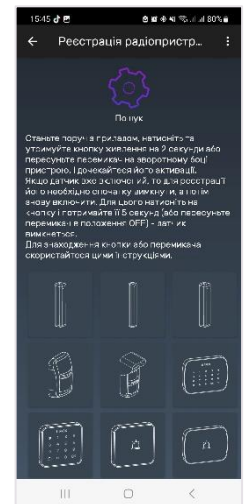
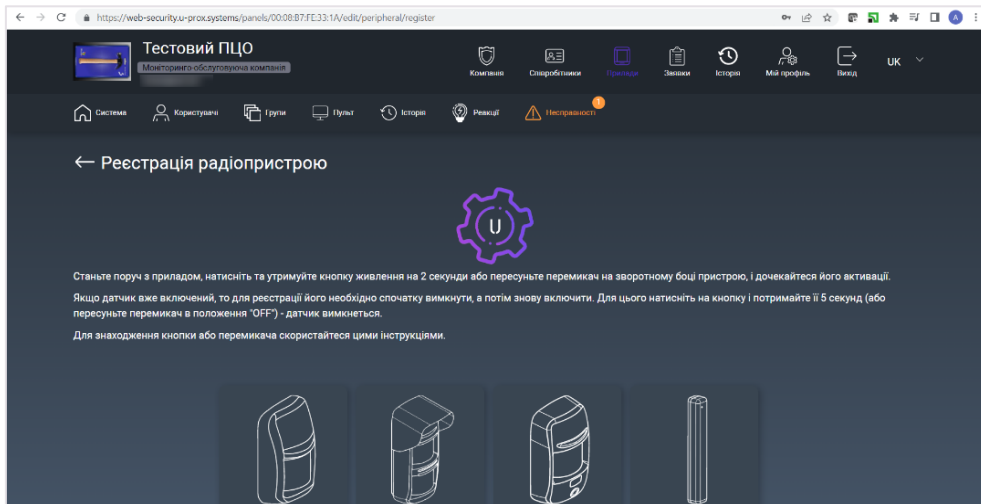
1. Launch the U-Prox Installer application or open the web portal in a browser and log in



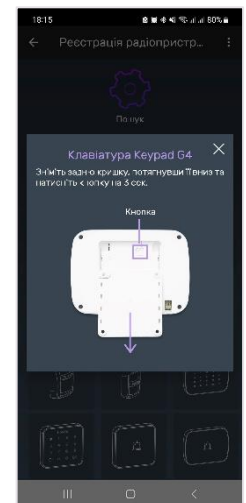
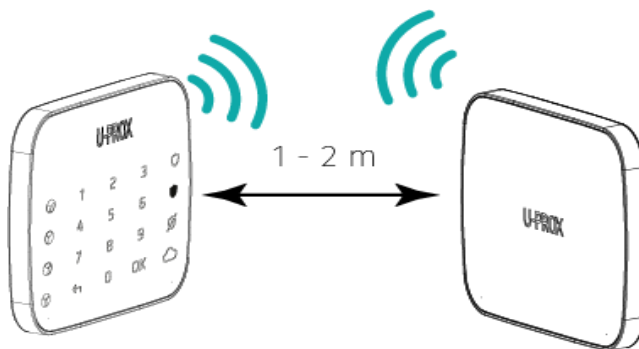
2. Select the U-Prox MPX to which you want to add a keypad from the list of devices



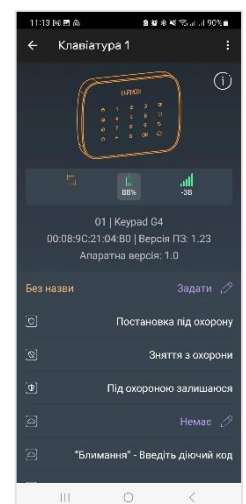
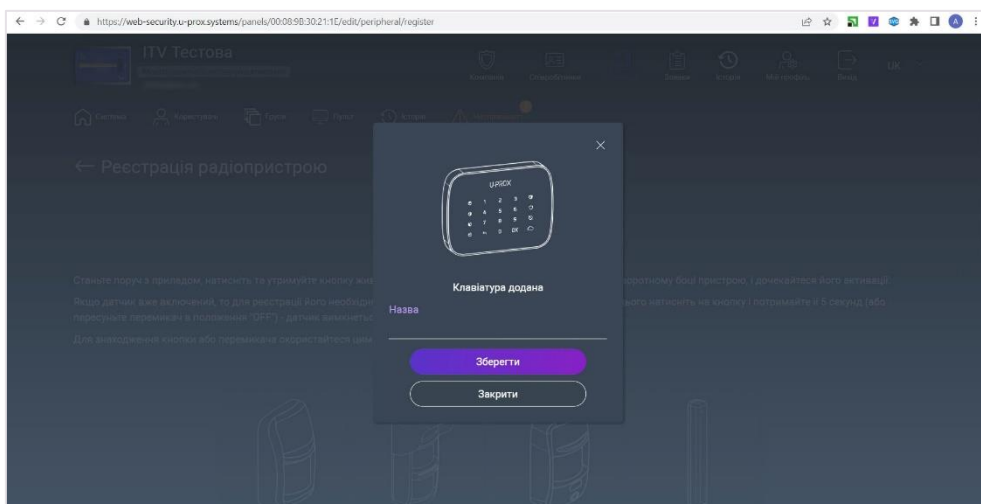
- Press the button (+) ("Add radio device"), the security center will enter the mode of registering detectors, keypads, etc. In this window, you can click on the device icons and view the activation instructions



- According to the instructions, turn on U-Prox Keypad G4 and bring it to the security center at a distance of about 1 meter



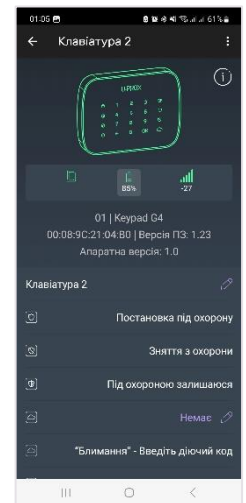
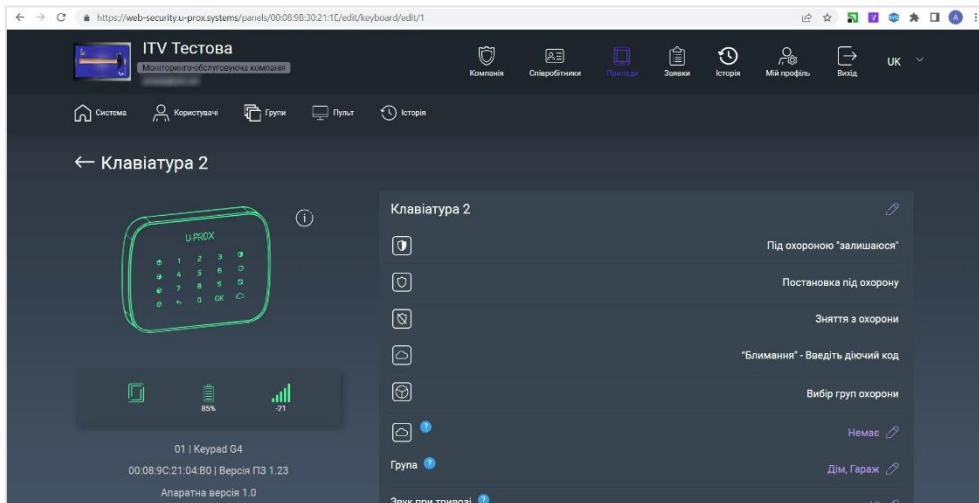
- Wait 15-20 seconds - the wireless device will be registered and the device settings will be opened in the application



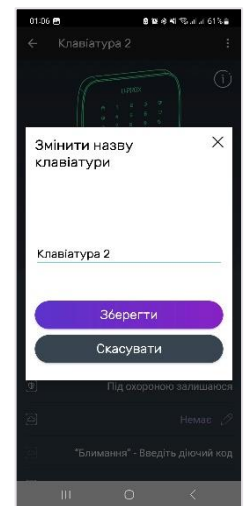
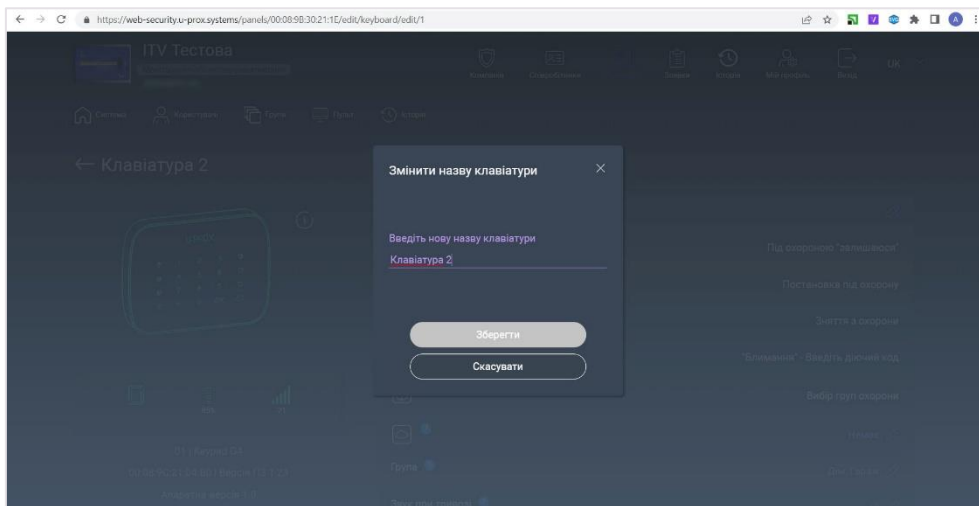
- Configure your device

## Basic settings of the U-Prox Keypad G4 keypad

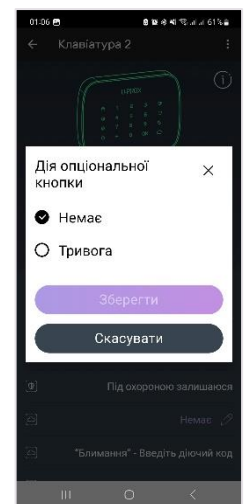
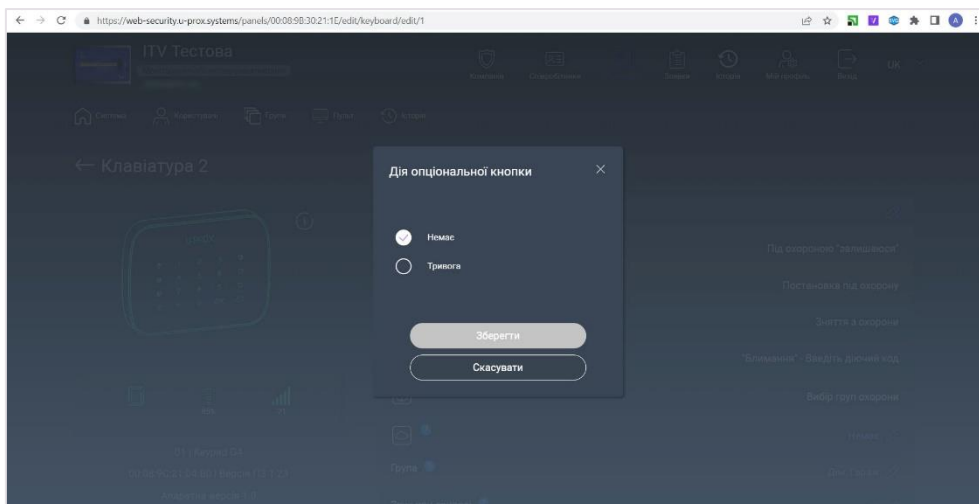
Select the device you want to configure from the device list



1. "Name" - the name of the device

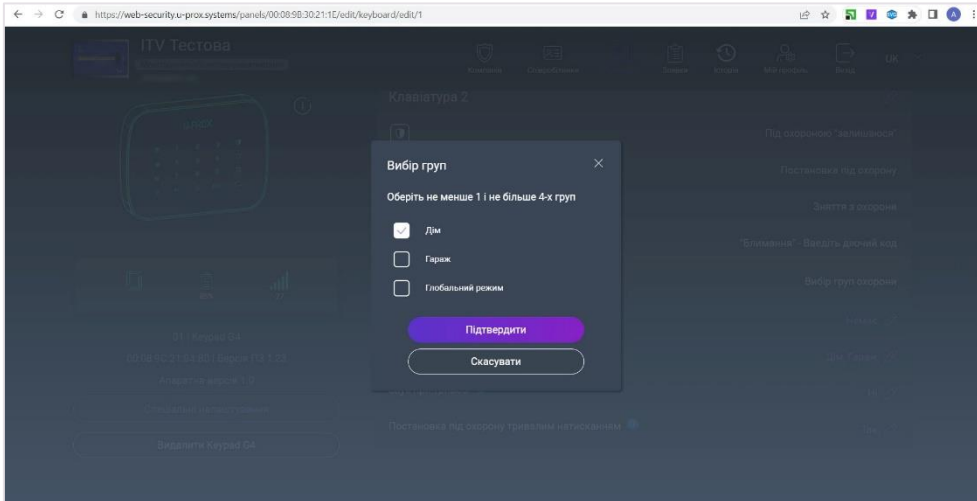


2. "Programmable button" - operation of a programmable button as an alarm button

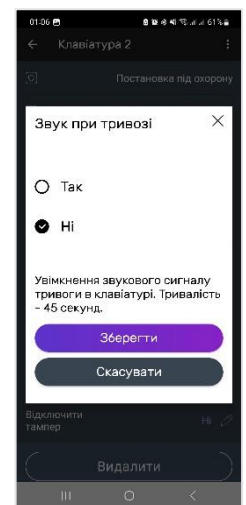
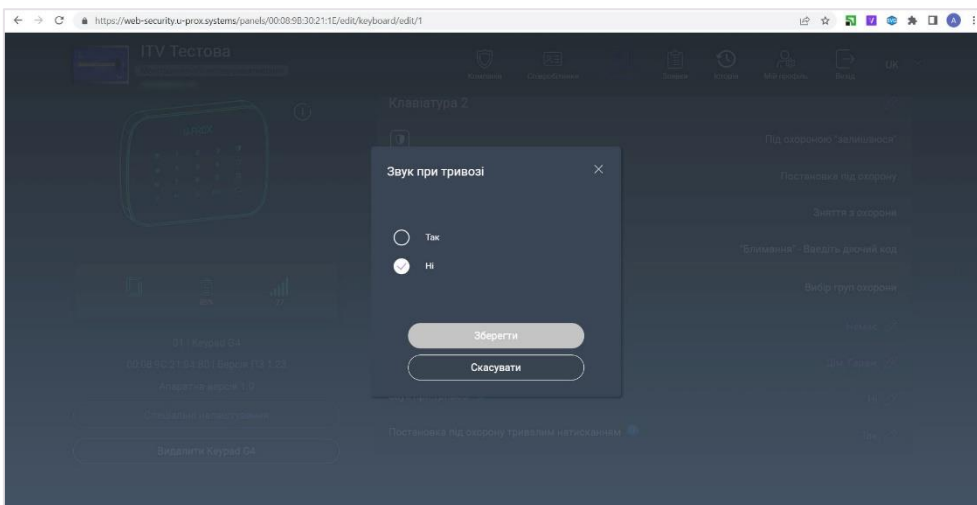


3. "Group selection" - the keypad will interact with the selected groups

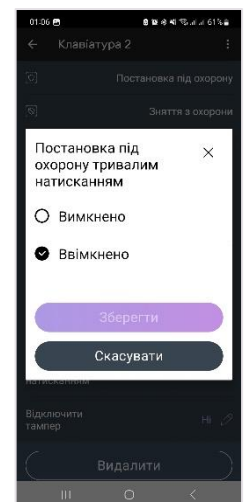
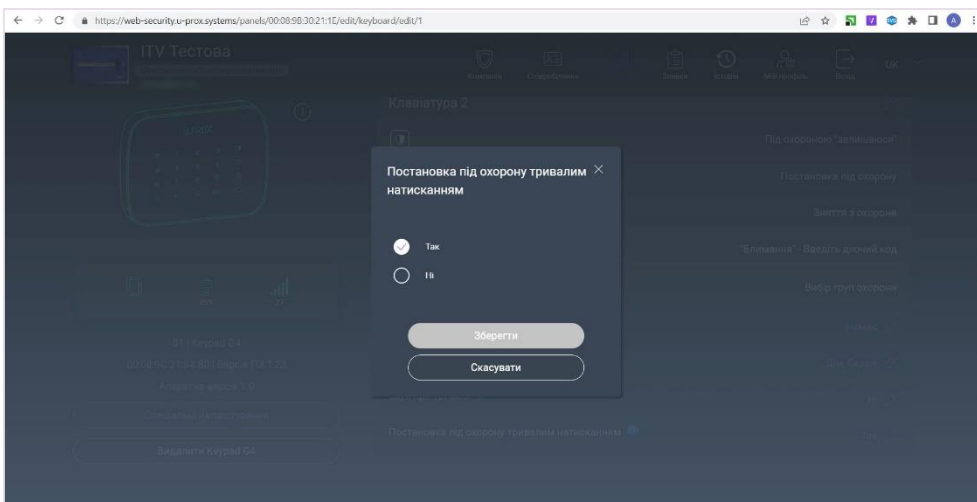




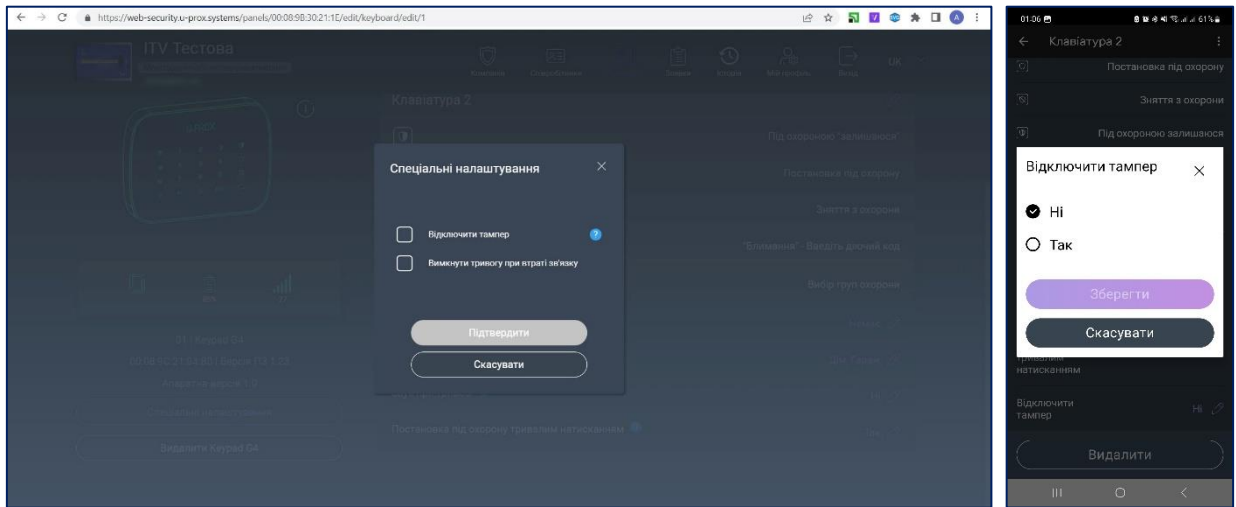
4. "Alarm sound - enable or disable the alarm sound"



5. "Arming by long pressing"



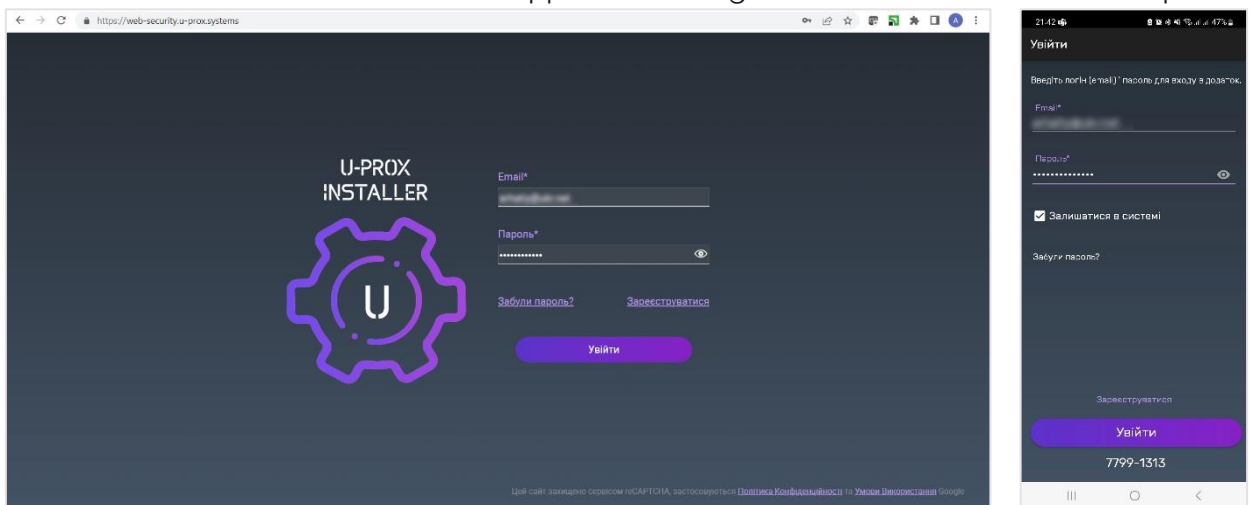
6. Special settings
  - a. "Disable tamper" - a setting when enabled, when the device will not respond to the opening of the case
  - b. "Disable alarm when communication is lost" - do not generate an alarm when communication with the device is lost



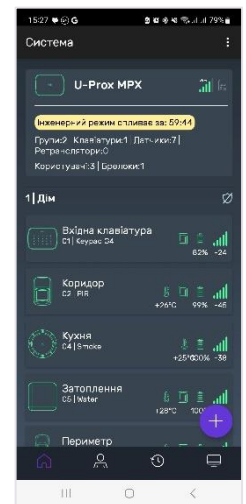
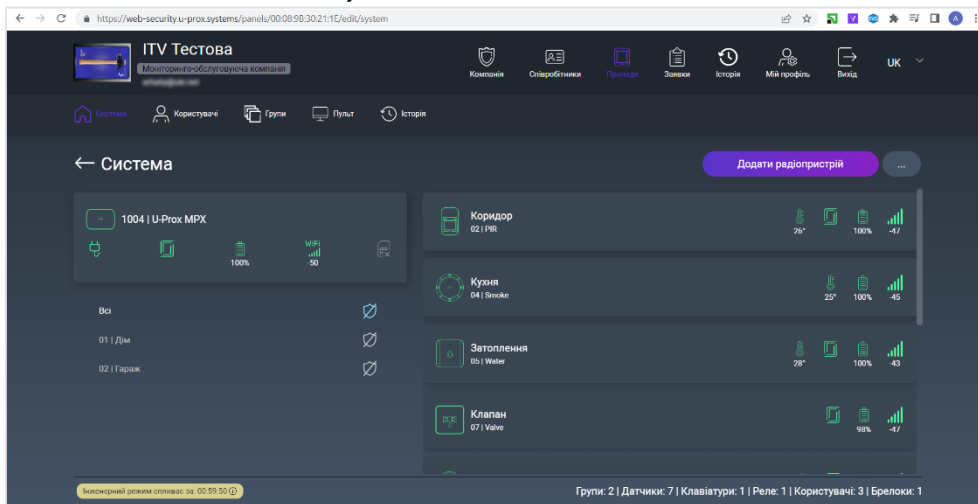
### Checking the communication level

**WARNING. BEFORE PERFORMING THIS STEP, THE DEVICE MUST BE REGISTERED IN THE UPROX SECURITY SYSTEM.**

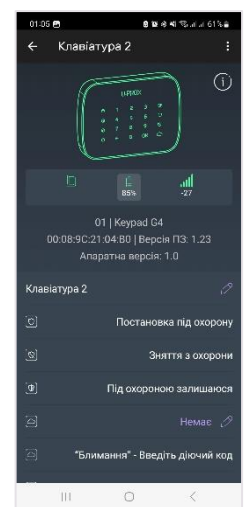
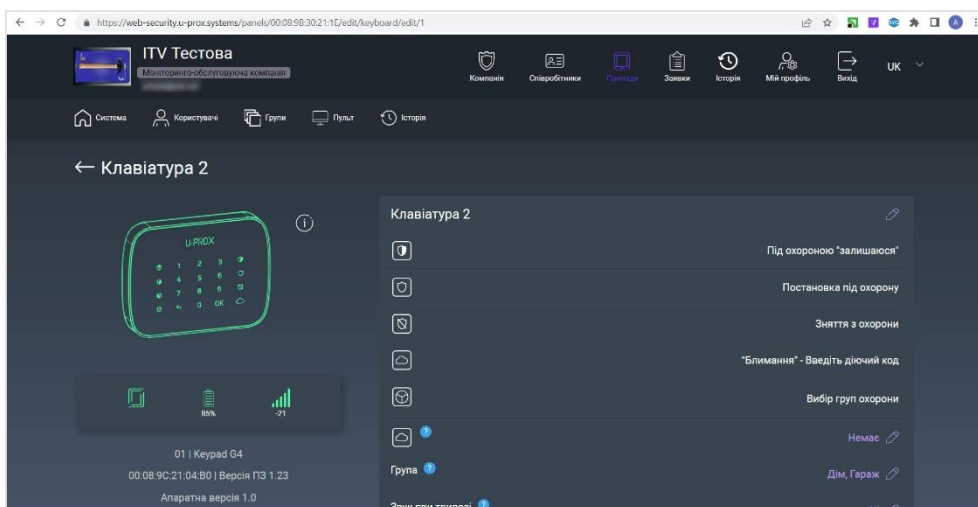
1. Launch the U-Prox Installer application or log in to the U-Prox Installer WEB portal



## 2. Select a security center from the list



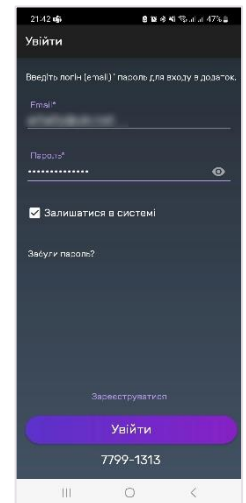
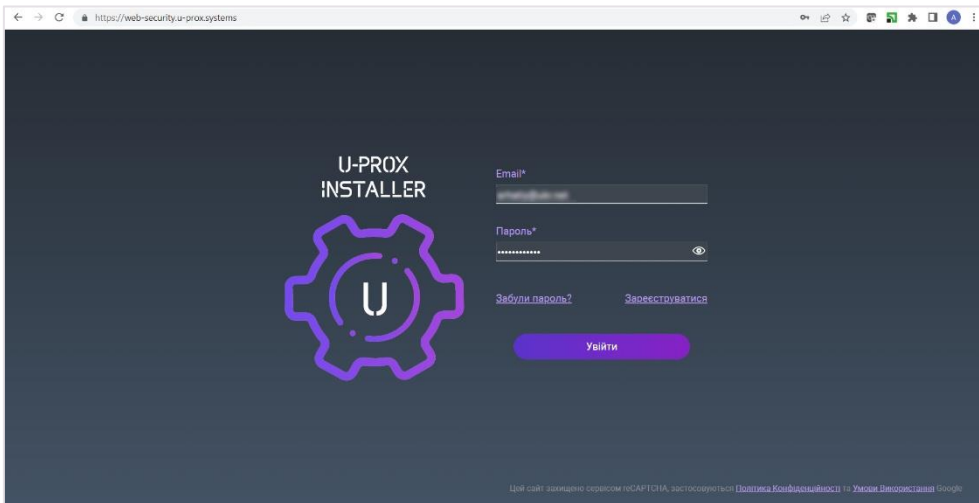
## 3. Select a device from the list



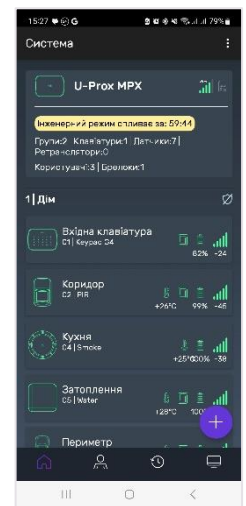
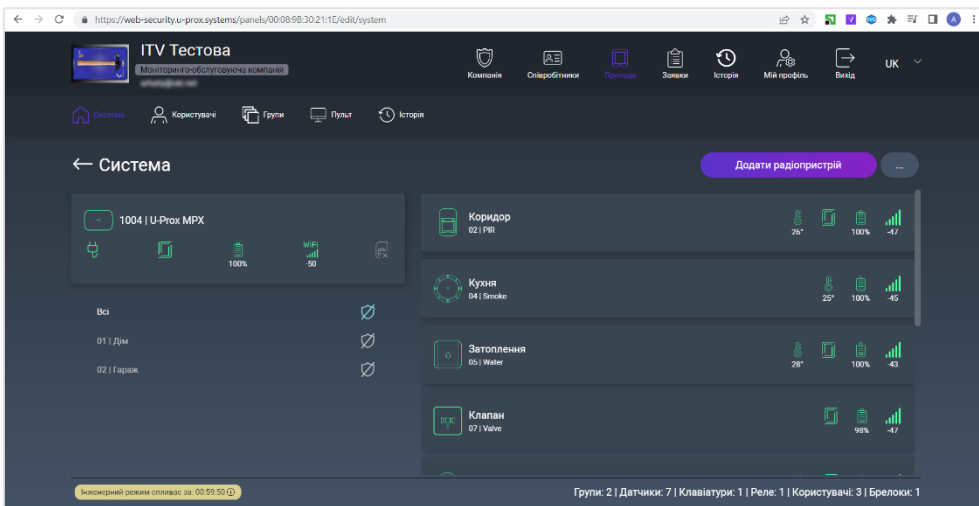
4. Place the device in the pre-selected installation location. The signal strength is displayed with a slight delay
5. Based on the data in the U-Prox Installer or U-Prox Installer WEB mobile application, select a location with an optimal signal strength of at least -95 dBm. If the signal strength is lower, move the device to another location or use the UProx Extender radio range extender

## Remove a device

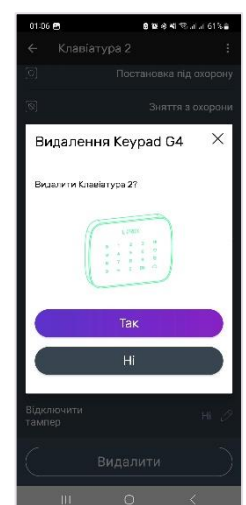
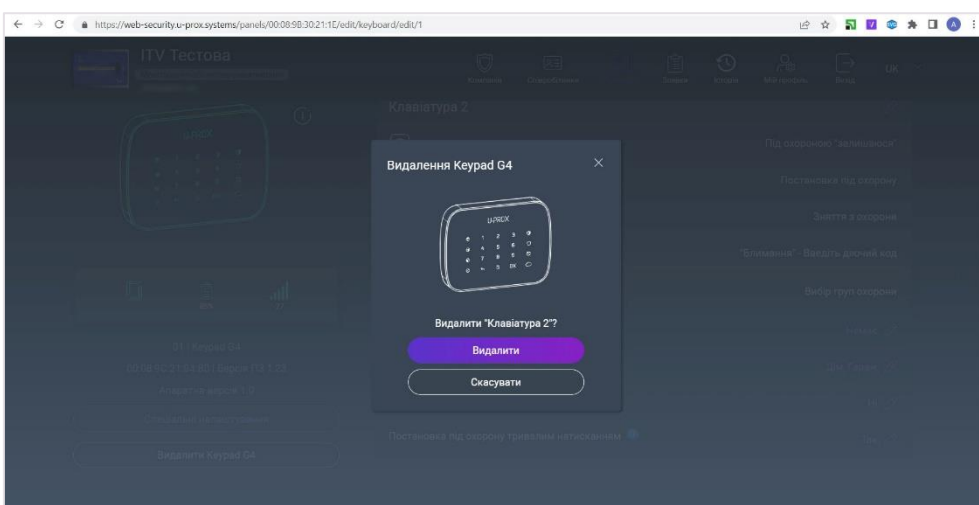
1. Launch the U-Prox Installer application or log in to the U-Prox Installer WEB portal



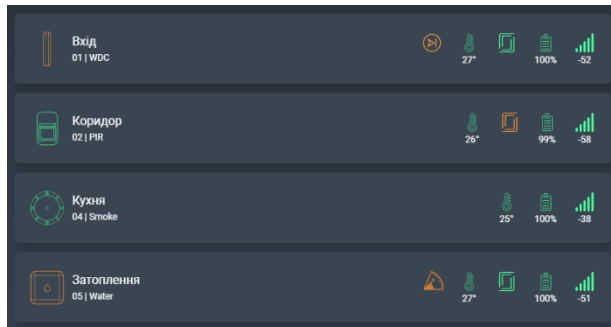
2. Select a security center from the list





3. Select the device from the list, click the "Uninstall" button, and confirm the removal




## Wireless device states




 - the device case is closed


 - the device case is open


 - the battery is charged

 - battery charge level

 - the battery is critically low

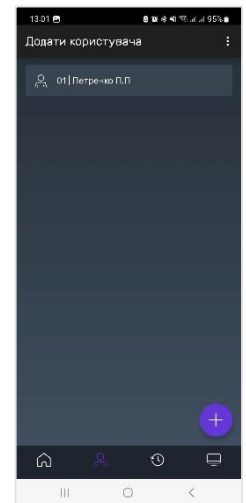
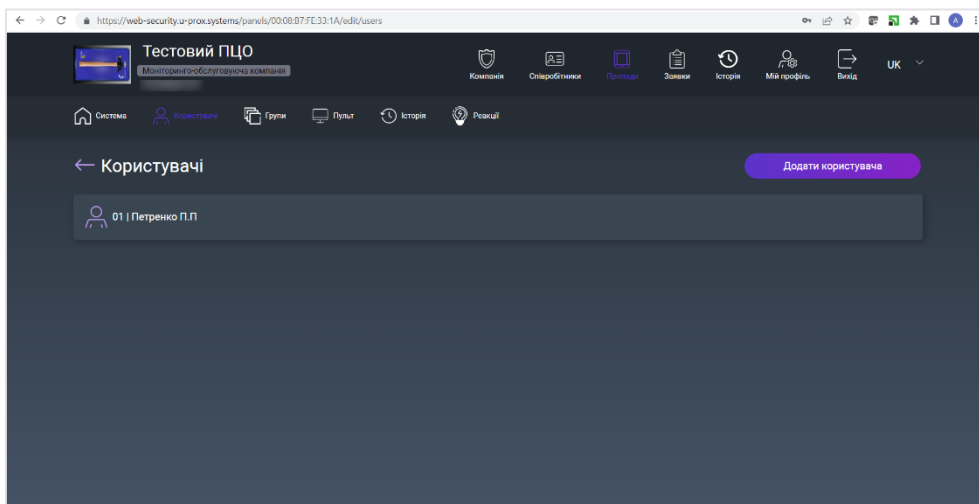
 - the battery is defective

 - level of radio communication with the security center

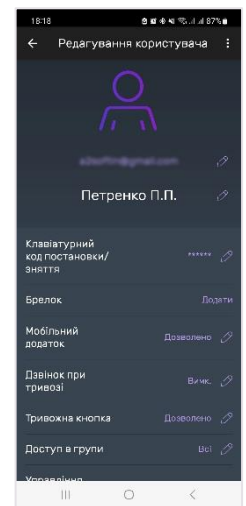
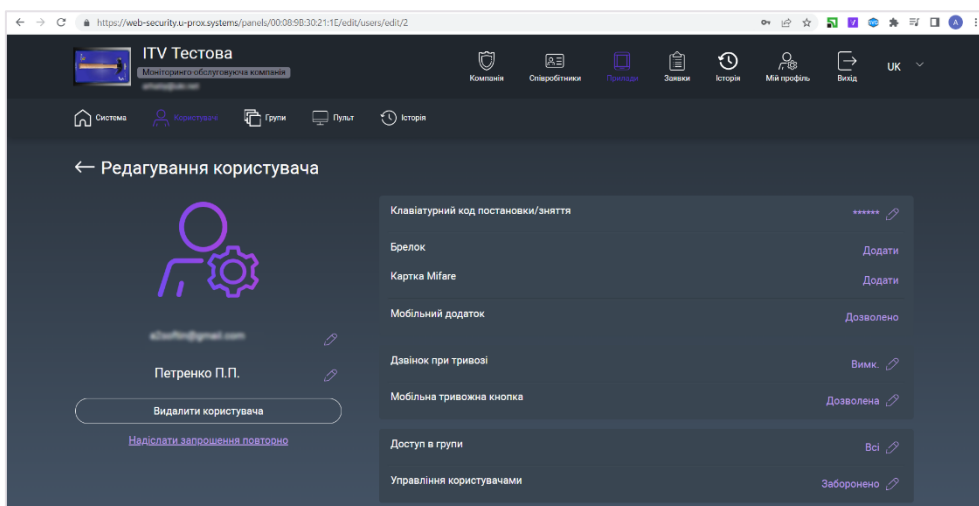
 - there is no radio communication with the security center

## Adding a passcode for a user

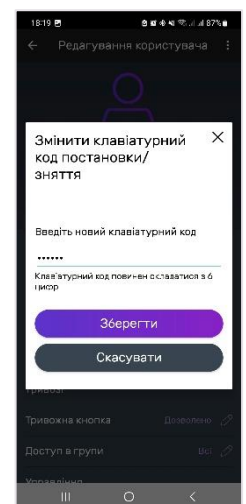
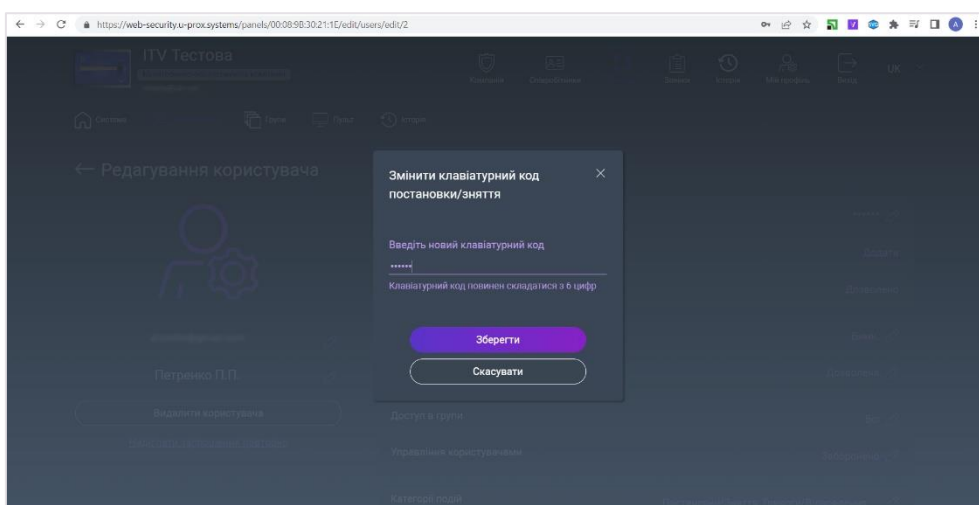
1. Go to the "Users" section



2. Select a user from the list



3. Select the "Arm/disarm keypad code" item, then enter the keypad code and click the "Save" button



4. The passcode will be saved

## Service

The device usually requires minimal maintenance - periodically clean the device case from dust and other contaminants as they appear.

## Compliance with the standards

- RED (Radio Equipment Directive) Directive 2014/53/EU
- EU ROHS Directive 2011/65/EU, EN IEC 63000:2018
- EN 62311:2008
- EN 62368-1:2014/AC:2015/A11:2017
- EN 50130-4:2011/A1:2014
- EN 61000-6-3:2007/A1:2011
- ETSI EN 301 489-1 v2.2.3
- ETSI EN 301 489-3 v2.1.1
- ETSI EN 301 489-17 v3.2.4
- ETSI EN 300 220-1 v3.1.1
- ETSI EN 300 220-2 v3.2.1
- EN 50131-1 Grade 2, Class II:
  - EN 50131-1:2006/A1:2009/A2:2017/A3:2020
  - EN 50131-3:2009
  - EN 50131-5-3:2017
  - EN 50131-6:2017

## Warranty obligations

The warranty period for the U-Prox device (excluding batteries) is 2 years from the date of sale.

If the device is not functioning properly, first contact [support@uprox.systems](mailto:support@uprox.systems). Perhaps this issue will be resolved remotely.

## The delivery package

1. U-Prox Keypad G4;
2. Four AAA LR03 batteries (pre-installed);
3. Quick start guide