

# U-PROX

Security & Safety

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## About U-Prox Security & Safety

Your home is your fortress, so even when you are not at home, you would prefer to know that everything is fine.

The wireless alarm system U-Prox is the most current development of ITV Ltd. and one of the best products in the security systems market.

This is the solution for reliable protection of home and business with wide functionality, convenient management and stylish design.

The system can easily fit into any interior, thanks to the different colors of devices.

Day and night the system will monitor your home and alert you in case of any danger.

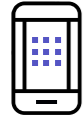
Wireless devices are connected to the control panel via reliable encrypted radio communications, and the mobile application allows you to manage all the functions of the system.

# Why U-Prox SAS



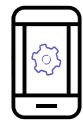
## Easy installation

Easy installation without disturbing the interior



## Smartphone control

Intuitive mobile application



## Smartphone or tablet setup

Fine-tuning from a mobile application



## Stay Arm

Stay home with perimeter secured



## Web portal

Remote control and configuration via Web portal



## Stable radio signal

Wireless detectors with ITU region selection, channel reliability, distance – up to 4800m



## 30 partitions (security groups)

30 independent partitions



## Battery backup

Built-in Lilon battery, up to 25 hours of operation without main power



## Alarm reporting

Sends alarm reports with standard Contact ID report messages



## Easy registration

Easy devices registration on power on

























## Convenient devices

Unique technical solutions for users convenience



# U-Prox devices

<p><b>U-Prox MP</b></p> <p>Wireless alarm U-Prox control panel with Ethernet.</p> 	<p><b>U-Prox MP WiFi</b></p> <p>Wireless alarm U-Prox control panel with Wi-Fi.</p> 	<p><b>U-Prox MP LTE</b></p> <p>Wireless alarm U-Prox control panel with Wi-Fi and LTE - 4G/3G.</p> 	<p><b>U-Prox Keypad G4</b></p> <p>Premium wireless keypad with touch surface, dedicated buttons for partition control</p> 	<p><b>U-Prox Keypad G1</b></p> <p>The wireless mini keypad is designed for arming and disarming one partition</p> 	<p><b>U-Prox Keyfob</b></p> <p>The wireless key fob is designed to control the U-Prox security system</p> 
<p><b>U-Prox PIR</b></p> <p>Wireless pet immune motion detector</p> 	<p><b>U-Prox PIR Combi</b></p> <p>Wireless pet immune motion and break glass detector</p> 	<p><b>U-Prox PIR Combi VB</b></p> <p>Wireless motion and break glass detector with "vertical barrier" lens</p> 	<p><b>U-Prox Button</b></p> <p>The wireless key fob / button designed to control the U-Prox security system.</p> 	<p><b>U-Prox Siren</b></p> <p>Wireless indoor siren</p> 	<p><b>U-Prox Siren Outdoor</b></p> <p>Wireless outdoor siren</p> 
<p><b>U-Prox PIR Outdoor</b></p> <p>Wireless outdoor motion detector</p> 	<p><b>U-Prox WDC</b></p> <p>Wireless magnetic door/window contact with external LED and reed switch connection</p> 	<p><b>U-Prox WDC long</b></p> <p>Wireless magnetic door/window contact with wires for connecting the arming information LED and external reed switch.</p> 	<p><b>U-Prox Valve</b></p> <p>Wireless water valve control device</p> 	<p><b>U-Prox Extender</b></p> <p>U-Prox radio technology radio range extender</p> 	<p><b>U-Prox Relay</b></p> <p>DC relay for remote control</p> 
<p><b>U-Prox WDC mini</b></p> <p>Wireless magnetic door/window contact</p> 	<p><b>U-Prox Smoke</b></p> <p>Wireless optical smoke alarm</p> 	<p><b>U-Prox Water</b></p> <p>Wireless water leak detector</p> 	<p><b>U-Prox Wireport</b></p> <p>Wireless module for connecting wired equipment to wireless U-Prox control panels.</p> 		



# CONTROL PANELS

# U-Prox MP

## Control panel with Ethernet



- 30 partitions, 99 detectors
- 16 keypads, 60 users, 60 key fobs
- Control and setup from smartphone. Setup from Web app
- Works autonomously or to monitoring stations
- Two radio transmitters operating on multiple channels, power – up to 25 mW
- 868.0 to 868.6 MHz, channels reservation
- Distance - up to 4800 m
- Ethernet and GSM/GPRS communication channels
- 2500 mAh battery – up to 24 hours of operation
- Dimensions – 167 x 120 x 25 mm
- Wide operating temperature range

U-Prox MP - is a wireless security control panel designed to control the home security system. U-Prox MP supports connection of up to 200 devices (sensors, keypads, key fobs, etc.) via the U-Prox radio technology radio frequency at a distance of up to 4800 m. The device interacts with the user and the security company, using Ethernet and GSM/GPRS communication for reliability.

### Radio communication

Two transmitters, with ITU region range autoselection, several channels for reliability. Secure two-way radio communication with radio channel sabotage detection. Distance - up to 4800 m in the open space. Three grades of power, maximum - up to 25 mW.

### User communication

The device needs Internet access to connect to the U-Prox Cloud service. With the help of the cloud service and the smartphone application, a user can connect to U-Prox MP to manage and configure the device.

### Communication with the security company

Round-the-clock Internet and GSM/GPRS communication, regardless of whether the device was connected to a cloud service

or not. Data exchange is encrypted and protected against intelligent tampering.

### Battery backup

The device is equipped with a 2500 mAh battery and can work for up to 24 hours in the absence of the main power supply.

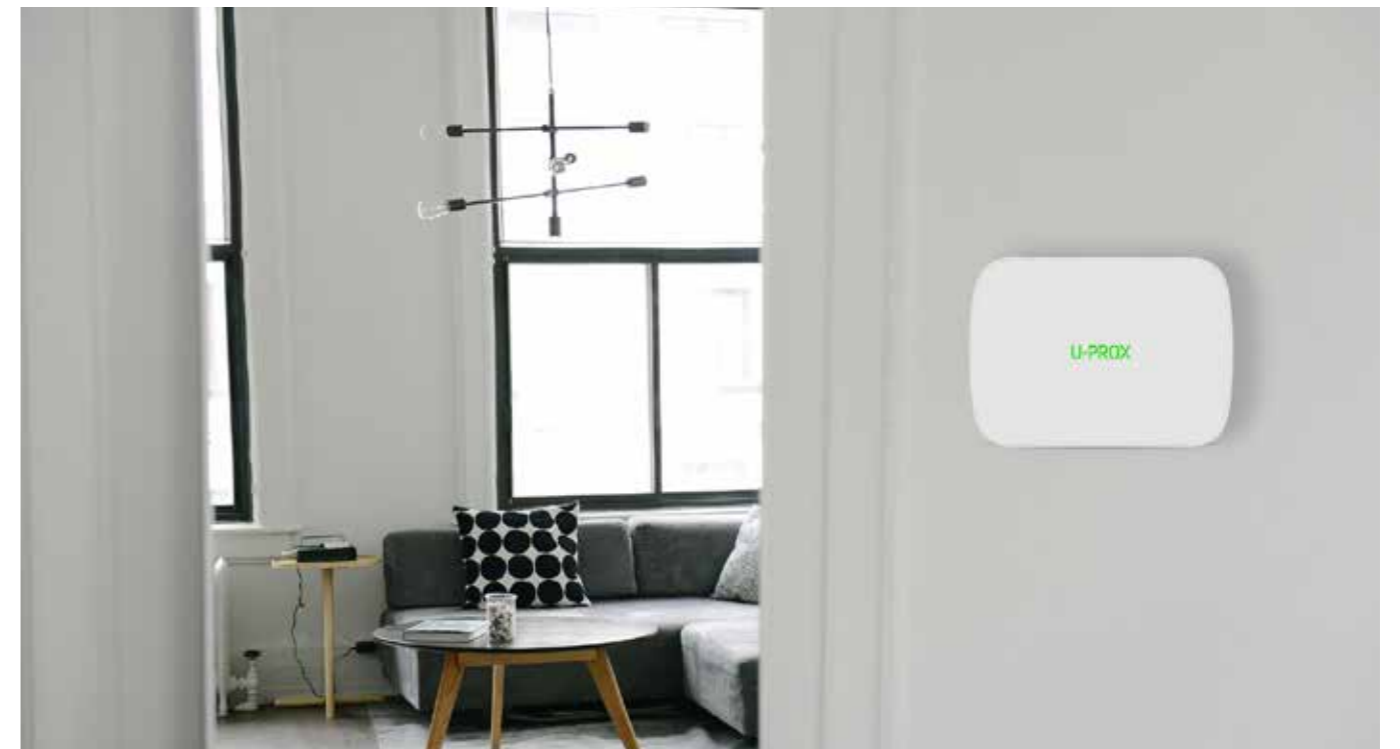
### Features

In the absence of the main power supply and during the operation from the built-in battery, the device switches to the power saving mode. In this mode, the Ethernet communicator is switched off and only GSM/GPRS is working. The permanent display of the device status will be switched off and the status will be displayed once every 30 seconds by flashing. If the SIM card is missing for 5 minutes, the device will turn off the GSM/GPRS modem. In this case, after inserting the SIM card, the device should be restarted.

*Please note: when installing and operating the device, observe the general rules and regulations for electrical safety for electrical devices.*

## TECHNICAL SPECIFICATIONS

Partitions	30	Communication	secure two way communication, sabotage detection, key - 256 bits
Wireless devices in the system	200	Connection	
detectors	99	Ethernet port	100 Mbit
keypads	16	GSM/GPRS modem	for reliable and secure communication
key fobs	60	Power supply (power supply unit included)	12 VDC @ 0.35 A
repeaters	8	Battery backup	2500 mAh battery
Users	60	battery runtime	up to 24 hours
Radio frequency	two ISM-band wireless interfaces, with several channels	Operating temperature range	-10°C to +55°C
ITU region 1 (EU, UA):	868.0 to 868.6 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight);	Case colour	white, black
ITU region 3 (AU):	916.5 to 917 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight);	Dimensions	167 x 120 x 25.4 mm
Russian Federation:	868.0 to 868.2 MHz, bandwidth 100kHz, 10 mW max., up to 3200m (in line of sight)	Weight	245 grams



# U-Prox MP WiFi

## Control panel with WiFi



- 30 partitions, 99 detectors
- 16 keypads, 60 users, 60 key fobs
- Control and setup from smartfone.  
Setup from Web app
- Works autonomously or to monitoring stations
- Two radio transmitters operating on multiple channels, power – up to 25 mW
- 868.0 to 868.6 MHz, channels reservation
- Distance - up to 4800 m
- WiFi and GSM/GPRS communication channels
- 2500 mAh battery – up to 24 hours of operation
- Dimensions – 167 x 120 x 25 mm
- Wide operating temperature range

U-Prox MP WiFi - is a wireless security control panel designed to control the home security system. U-Prox MP WiFi supports connection of up to 200 devices (sensors, keypads, key fobs, etc.) via the U-Prox radio technology radio frequency at a distance of up to 4800 m.

The device interacts with the user and the security company, using WiFi and GSM/GPRS communication for reliability.

### Radio communication

Two transmitters - with ITU region range autoselection, several channels for reliability. Secure two-way radio communication with radio channel sabotage detection.

Distance - up to 4800 m in the open space.

Three grades of power, maximum - up to 25 mW.

### User communication

The device needs Internet access to connect to the U-Prox Cloud service. With the help of the cloud service and the smartphone application, a user can connect to U-Prox MP WiFi to manage and configure the device.

### Communication with the security company

Round-the-clock Internet and GSM/GPRS communication,

regardless of whether the device was connected to a cloud service or not. Data exchange is encrypted and protected against intelligent tampering.

### Battery backup

The device is equipped with a 2500 mAh battery and can work for up to 24 hours in the absence of the main power supply

### Features

In the absence of the main power supply and during the operation from the built-in battery, the device switches to the power saving mode. In this mode, the WiFi communicator is switched off and only GSM/GPRS is working.

The permanent display of the device status will be switched off and the status will be displayed once every 30 seconds by flashing. If the SIM card is missing for 5 minutes, the device will turn off the GSM/GPRS modem. In this case, after inserting the SIM card, the device should be restarted.

*Please note: when installing and operating the device, observe the general rules and regulations for electrical safety for electrical devices.*

## TECHNICAL SPECIFICATIONS

Partitions	30
Wireless devices in the system	200
detectors	99
keypads	16
key fobs	60
repeaters	8
Users	60
Radio frequency	two ISM-band wireless interfaces, with several channels
ITU region 1 (EU, UA):	868.0 to 868.6 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight);
ITU region 3 (AU):	916.5 to 917 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight);
Russian Federation:	868.0 to 868.2 MHz, bandwidth 100kHz, 10 mW max., up to 3200m (in line of sight)

Communication	secure two way communication, sabotage detection, key - 256 bits
Connection	
Wi-Fi 2.4GHz	802.11b/g/n, WPA/WPA2/WEP
GSM/GPRS modem	for reliable and secure communication
Power supply (power supply unit included)	12 VDC @ 0.35 A
Battery backup	2500 mAh battery
battery runtime	up to 24 hours
Operating temperature range	-10°C to +55°C
Case colour	white, black
Dimensions	167 x 120 x 25.4 mm
Weight	245 grams





# U-Prox MP LTE

## Control panel with Wi-Fi and LTE - 4G/3G



- 30 partitions, 99 wireless devices
- 116 wireless keypads, 60 users, 60 key fobs
- Control and setup from smartfone.  
Setup from Web app
- Works autonomously or with monitoring stations
- Two radio transceivers operating on multiple channels, power – up to 25 mW
- 868.0 to 868.6 MHz, channels reservation
- Distance - up to 4800 m
- Wi-Fi and LTE (4G / 3G) communication channels
- 2500 mAh battery – up to 24 hours of operation
- Dimensions – 167 x 120 x 25 mm
- Wide operating temperature range

U-Prox MP LTE - is a wireless security control panel designed to control the home security system. U-Prox MP LTE supports connection of up to 200 devices (sensors, keypads, key fobs, etc.) via the U-Prox radio technology radio frequency at a distance of up to 4800 m.

The device interacts with the user and the security company, using WiFi and LTE(4G/3G) communication for reliability.

### Radio communication

Two transmitters - with ITU region range autoselection, several channels for reliability. Secure two-way radio communication with radio channel sabotage detection.

Distance - up to 4800 m in the open space.

Three grades of power, maximum - up to 25 mW.

### User communication

The device needs Internet access to connect to the U-Prox Cloud service. With the help of the cloud service and the smartphone application, a user can connect to U-Prox MP LTE to manage and configure the device.

### Communication with the security company

Round-the-clock Internet and LTE(4G/3G) communication,

regardless of whether the device was connected to a cloud service or not. Data exchange is encrypted and protected against intelligent tampering.

### Battery backup

The device is equipped with a 2500 mAh battery and can work for up to 24 hours in the absence of the main power supply

### Features

In the absence of the main power supply and during the operation from the built-in battery, the device switches to the power saving mode. In this mode, the WiFi communicator is switched off and only LTE(4G/3G) is working.

The permanent display of the device status will be switched off and the status will be displayed once every 30 seconds by flashing.

If the SIM card is missing for 5 minutes, the device will turn off the LTE(4G/3G) modem. In this case, after inserting the SIM card, the device should be restarted.

*Please note: when installing and operating the device, observe the general rules and regulations for electrical safety for electrical devices.*

## TECHNICAL SPECIFICATIONS

Partitions	30
Wireless devices in the system	200
detectors	99
keypads	16
key fobs	60
repeaters	8
Users	60
Radio frequency	two ISM-band wireless interfaces, with several channels
ITU region 1 (EU, UA):	868.0 to 868.6 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)
ITU region 3 (AU):	916.5 to 917 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)
Russian Federation:	868.0 to 868.2 MHz, bandwidth 100kHz, 10 mW max., up to 3200m (in line of sight)

Communication	secure two way communication, sabotage detection, key - 256 bits
Connection	Wi-Fi 2.4GHz and LTE modem for reliable and secure two way communication, key - 256 bits
Wi-Fi	2.4 GHz, 802.11b/g/n, Open/WPA/WPA2/WEP 14 dBm for 802.11n MCS7, 20 dBm for 802.11b
LTE	Multi-band LTE Cat 1 modem, UMTS/HSPA+, LTE FDD - B1/B3/B7/B8/B20/B28, WCDMA - B1/B8
Power supply (power supply unit included)	12 VDC @ 0.35 A
Battery backup	2500 mAh battery
battery runtime	up to 24 hours
Operating temperature range	-10°C to +55°C
Case colour	white, black
Dimensions	167 x 120 x 25.4 mm
Weight	245 grams





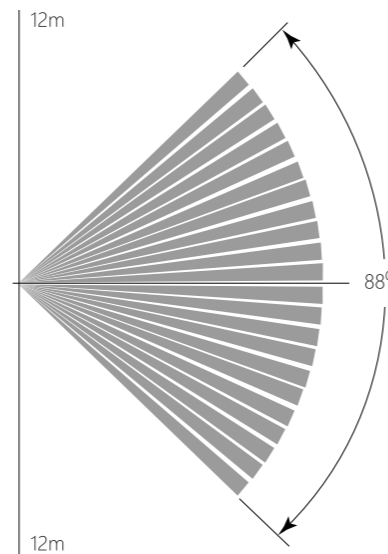
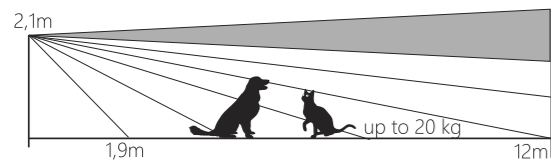
# DETECTORS

# U-Prox PIR

## Wireless pet immune motion detector



- Sensitive PIR detector
- Equipped with pet immune lens
- Detector sensitivity is adjustable with U-Prox Installer
- Up to 5 years of operation with one battery CR123
- Easy and convenient installation
- Compact size
- Wide operating temperature range



U-Prox PIR - is a wireless motion sensor equipped with a PIR-sensor and is designed for the security of any indoor residential or industrial premises. When the thermal balance of the environment changes, the device sends an alarm notification to the U-Prox MP control panel. For indoor use only

### Pet immune

The detector has the special lens and is designed for use in areas where pets (cats, dogs, etc.) can be present. The device is immune to the movement of animals weighing up to 20 kg

### Radio communication

The detector transmitter operates in several channels with ITU region range autoselection band for reliability. Secure two-way radio communication. Distance - up to 4800m in line of sight. Three grades of power, maximum - up to 20 mW.

### Setting

The detector is connected to the U-Prox MP control panel and is configured using the U-Prox Installer mobile application.

## TECHNICAL SPECIFICATIONS

Maximum operating distance	12m
Radio frequency	ISM-band wireless interface, with several channels
ITU region 1 (EU, UA):	868.0 to 868.6 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)
ITU region 3 (AU):	916.5 to 917 MHz, bandwidth 100kHz, 10 mW max., up to 4800m (in line of sight)
Russian Federation:	868.0 to 868.2 MHz, bandwidth 100kHz, 10 mW max., up to 3200m (in line of sight)
Communication	secure two way communication, sabotage detection, key - 256 bits
Power (lithium battery included)	3V, CR123A battery
power consumption in standby	no more than 10 µA
transmission power consumption	no more than 20 mA
service life of battery	up to 5 years
Optical noise immunity	> 6500 Lux

Radiated electromagnetic field immunity	5 V/m
Electrostatic discharge resistance	8 kV
Operating temperature range	-10°C to +55°C
Case colour	white, black
Detector dimensions	90 x 60 x 34,35 mm
with a wall bracket	90 x 60 x 41.6 mm
with an angle bracket	90 x 60 x 48.84 mm
Weight	130 grams



# U-Prox PIR Combi

Wireless pet immune motion and break glass detector



- Sensitive PIR detector
- Equipped with pet immune lens
- Detector sensitivity is adjustable with U-Prox Installer
- Up to 5 years of operation with one battery CR123
- Easy and convenient installation
- Compact size
- Wide operating temperature range

U-Prox PIR Combi - is a combined wireless motion detector and acoustic breakglass sensor. The device is equipped with a PIR-sensor and microphone and is designed for the security of any indoor residential or industrial premises.

When the thermal balance of the environment changes or there is the sound of breaking glass, the device sends an alarm notification to the U-Prox MP control panel. For indoor use only.

#### Pet immune

The detector has the special lens and is designed for use in areas where pets (cats, dogs, etc.) can be present. The device is immune to the movement of animals weighing up to 20 kg

#### Protection against false positives alarms

Acoustic data processing based on modified speech recognition algorithm. Sensor analyzes the sequence of the thud and the ringing sound of falling glass.

#### Types of glass

Ordinary, patterned, tempered, laminated, reinforced, protected by polymer film of classes A1, A2, A3, double-glazed windows 4x16x4

#### Radio communication

The detector transmitter operates in several channels with ITU region range autoselection band for reliability. Secure two-way radio communication. Distance - up to 4800m in line of sight. Three grades of power, maximum - up to 20 mW.

#### Setting

The detector is connected to the U-Prox MP control panel and is configured using the U-Prox Installer mobile application.

## TECHNICAL SPECIFICATIONS

Radio frequency	ISM-band wireless interface, with several channels
ITU region 1 (EU, UA):	868.0 to 868.6 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight);
ITU region 3 (AU):	916.5 to 917 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)
Russian Federation:	868.0 to 868.2 MHz, bandwidth 100kHz, 10 mW max., up to 3200m (in line of sight)
Communication	secure two way communication, sabotage detection, key - 256 bits
Power (lithium battery included)	3V, CR123A
power consumption in standby	no more than 10 µA
transmission power consumption	no more than 20 mA
service life of battery	up to 5 years

Motion detector	
Maximum operating distance	12 m
Optical noise immunity	> 6500 Lux
Break glass detector	
Maximum distance	8 m
Glass thickness	2 mm to 8 mm
Glass dimension	0.5 m x 0.5 m to 3.0 m x 3.0 m
Radiated electromagnetic field immunity	5 V/m
Electrostatic discharge resistance	8 kV
Operating temperature range	-10°C to +55°C
Case colour	white, black
Detector dimensions	90 x 60 x 34.35 mm
with a wall bracket	90 x 60 x 41.6 mm
with an angle bracket	90 x 60 x 48.84 mm
Weight	150 grams

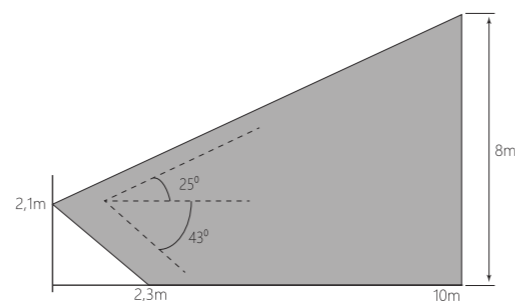
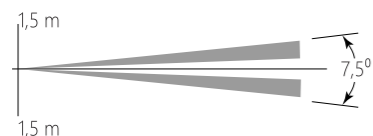


# U-Prox PIR Combi VB

Wireless motion and break glass detector with "vertical barrier" lens



- Sensitive PIR detector
- "Vertical barrier" ("Curtain") lens
- The microphone recognizes the sound of breaking glass
- Detector sensitivity is adjustable with U-Prox Installer
- Up to 5 years of operation with one battery CR123
- Easy and convenient installation
- Compact size
- Wide operating temperature range



U-Prox PIR Combi (VB) - is a combined wireless motion detector and acoustic breakglass sensor. The device is equipped with a PIR-sensor, the Vertical Barrier lens with a narrow horizontal viewing angle and microphone. Device designed to control the perimeter inside the room, to protect glass structures, windows, doors, garage doors, etc.

When the thermal balance of the environment changes or there is the sound of breaking glass, the device sends an alarm notification to the U-Prox MP control panel. For indoor use only.

### "Vertical barrier" Lens

The Vertical Barrier lens has a narrow horizontal viewing angle. Detectors equipped such lens are used to control the perimeter inside the room, to protect glass structures, windows, doors, garage doors, etc.

### Protection against false positives alarm

Acoustic data processing based on modified speech recognition

algorithm. Sensor analyzes the sequence of the thud and the ringing sound of falling glass.

### Types of glass

Ordinary, patterned, tempered, laminated, reinforced, protected by polymer film of classes A1, A2, A3, double-glazed windows 4x16x4

### Radio communication

The detector transmitter operates in several channels with ITU region range autoselection band for reliability. Secure two-way radio communication. Distance - up to 4800m in line of sight. Three grades of power, maximum - up to 20 mW.

### Setting

The detector is connected to the U-Prox MP control panel and is configured using the U-Prox Installer mobile application.

## TECHNICAL SPECIFICATIONS

Radio frequency	ISM-band wireless interface, with several channels
ITU region 1 (EU, UA):	868.0 to 868.6 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight);
ITU region 3 (AU):	916.5 to 917 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)
Russian Federation:	868.0 to 868.2 MHz, bandwidth 100kHz, 10 mW max., up to 3200m (in line of sight)
Communication	secure two way communication, sabotage detection, key - 256 bits
Power (lithium battery included)	3V, CR123A
power consumption in standby	no more than 10 µA
transmission power consumption	no more than 20 mW
service life of battery	up to 5 years
Case colour	white, black

Motion detector	
Maximum operating distance	10 m
Optical noise immunity	> 6500 Lux
Break glass detector	
Maximum distance	8 m
Glass thickness	2 mm to 8 mm
Glass dimension	0.5 m x 0.5 m to 3.0 m x 3.0 m
Radiated electromagnetic field immunity	5 V/m
Electrostatic discharge resistance	8 kV
Operating temperature range	-10°C to +55°C
Detector dimensions	90 x 60 x 34.35 mm
with a wall bracket	90 x 60 x 41.6 mm
with an angle bracket	90 x 60 x 48.84 mm
Weight	150 grams



# U-Prox PIR Outdoor

## Outdoor motion detector



- Passive infrared motion detector
- Detection distance of objects 3-15m, viewing angle 90 °
- Anti-masking
- Sensitivity setting from smartphone
- Operates up to 5 years on two CR123A batteries
- Universal bracket and hood included
- Immunity to objects up to 80 cm high.
- Wide operating temperature range
- Protection degree IP55

U-Prox PIR Outdoor – is a wireless outdoor motion detector with advanced detections algorithms, digital temperature compensation of sensor and antimasking system. When the thermal balance of the environment changes, the device processes a digital signal from two PIR sensors, filters noise and interference and sends an alarm notification to the U-Prox control panel.

### Protection from external factors

The motion sensor U-Prox PIR Outdoor can be used both indoors and outdoors. The device is able to work offline at temperatures from -20°C to +55°C, resistant to UV, can operate at 100% humidity.

In accordance with international standards, it has a degree of protection of electrical equipment from the ingress of dust and water - IP 55.

### Sabotage Protection

In the event of a hidden countermeasure affecting the normal

operation of the U-Prox PIR Outdoor, the security sensor will definitely react and notify the central security device of sabotage, alarm information will be instantly transmitted to the central security console and to the owner's phone.

The sensor is equipped with a tamper, has an encrypted protocol and a unique serial number, which makes it impossible to replace and intelligent sabotage, it also has a radio signal sabotage detection system, and an anti-masking system.

### Radio communication

The detector transmitter operates in several channels with ITU region range autoselection band for reliability. Secure two-way radio communication. Distance - up to 4800m in line of sight. Three grades of power, maximum - up to 20 mW.

### Setting

The detector is connected to the U-Prox MP control panel and is configured using the U-Prox Installer mobile application.

## TECHNICAL SPECIFICATIONS

Radio frequency	ISM-band wireless interface with several channels
ITU region 1 (EU, UA):	868.0 to 868.6 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)
ITU region 3 (AU):	916.5 to 917 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)
Russian Federation:	868.0 to 868.2 MHz, bandwidth 100kHz, 10 mW max., up to 3200m (in line of sight)
Communication	Secure two way communication, sabotage detection, key - 256 bits
Power (lithium battery included)	3V, two CR123A
service life of battery	up to 5 years

Working distances	3 to 15 m
Detection angle	90°
Optical noise immunity	> 6500 Lux
PIR target detection speed	0.2 to 5 m/s
Mounting heights	0.9 to 1.10 m
Pet immunity	weight up to 20 kg
Protection class	IP55
Operating temperature range	-20°C to +55°C
Case colour	white
Detector dimensions	
with a hood	183.8 x 77.2 x 88.6 mm
no hood	180 x 70 x 62.5 mm
Weight	290 grams



# U-Prox WDC

Wireless magnetic door/window contact with LED output



- One reed switch
- Output for arming information LED connection
- Input for external reed switch connection
- Detector is adjustable with U-Prox Installer
- Easy and convenient installation
- Up to 5 years battery life
- Efficient on metal doors
- Compact size
- Wide operating temperature range

U-Prox WDC - is a wireless magnetic contact detector with external LED and reed switch connection and used to protect doors and windows. The device sends an alarm notification to the alarm center U-Prox MP security alarm system.

#### Radio communication

The detector transmitter operates in several channels with ITU region range autoselection band for reliability. Secure two-way radio communication.

Distance - up to 4800m in line of sight.  
Three grades of power, maximum - up to 20 mW.

#### Setting

The detector is connected to the U-Prox MP control panel and is configured using the U-Prox Installer mobile application.

#### Batteries

The device uses a CR123A battery (included)

## TECHNICAL SPECIFICATIONS

Reed switch threshold	7-15 mm
Maximum number of actuations	> 1 000 000
Radio frequency	ISM-band wireless interface, with several channels
ITU region 1 (EU, UA):	868.0 to 868.6 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)
ITU region 3 (AU):	916.5 to 917 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)
Russian Federation:	868.0 to 868.2 MHz, bandwidth 100kHz, 10 mW max., up to 3200m (in line of sight)
Communication	secure two way communication, sabotage detection, key - 256 bits

Power (lithium battery included)	3V, CR123A
service life of battery	up to 5 years
Operating temperature range	-20°C to +50°C
Case colour	white, black, dark brown
Dimensions	
Detector	85 x 20,9 x 20,4 mm
Magnet	85 x 11 x 6 mm
Weight	66 grams



# U-Prox WDC long

Wireless magnetic door/window contact with LED output



- Two reed switches for installation convenience
- LED output for arming information
- Input for external reed switch connection
- Efficient on metal doors
- Detector is adjustable with U-Prox Installer
- Operates up to 3 years with one lithium AAA battery
- Easy and convenient installation
- Compact size
- Wide operating temperature range

U-Prox WDC long - is a wireless magnetic contact designed to monitor the status of structural elements (open/close) to detect an attempt to enter a room. The device sends an alarm notification to the U-Prox MP control panel. Equipped with two reed switches, mounted indoors and used to protect doors and windows. The detector has contacts for connecting the arming information LED and external reed switch.

### Radio communication

The detector transmitter operates in several channels with ITU region range autoselection band for reliability. Secure two-way radio communication. Distance - up to 4800m in line of sight. Three grades of power, maximum - up to 20 mW.

### Setting

The detector is connected to the U-Prox MP control panel and is

configured using the U-Prox Installer mobile application.

### Features

Use only one of the three sensors: top, bottom built-in reed switches or external reed switches. Operation of two or more sensors at the same time is an alarm. The time for switching on the external arming notification LED is 15 seconds

### Batteries

The device uses an AAA battery

Lithium batteries (FR03)	Recommended (included)
Alkaline batteries (LR03)	Usage allowed at temperatures above +5°C
Salt batteries (R03)	<i>Do not use!</i>

## TECHNICAL SPECIFICATIONS

Reed switch threshold	7-15 mm
Maximum number of actuations	> 1 000 000
Number of positions for magnet	2
Radio frequency	ISM-band wireless interface, with several channels
ITU region 1 (EU, UA):	868.0 to 868.6 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)
ITU region 3 (AU):	916.5 to 917 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)
Russian Federation:	868.0 to 868.2 MHz, bandwidth 100kHz, 10 mW max., up to 3200m (in line of sight)
Communication	secure two way communication, sabotage detection, key - 256 bits

Power (lithium battery included)	1.5V AAA (FR03) battery
standby consumption	< 5 µA
transmission consumption	< 70 mA
service life of battery (no external LED)	3 years
Electromagnetic field immunity	8 V/m
Operating temperature range	-10°C to +55°C
Connections to WDC	external LED and reed switch
Case colour	white, black, dark brown
Dimensions	
Detector	138 x 20.75 x 17.1 mm
Magnet	85 x 11 x 6 mm
Weight	65 grams





# U-Prox WDC mini

Wireless magnetic door/window contact



- One reed switch
- Detector is adjustable with U-Prox Installer
- Easy and convenient installation
- Operates up to 5 years with one lithium AAA battery
- Efficient on metal doors
- Compact size
- Wide operating temperature range

U-Prox WDC mini - is a wireless magnetic contact designed to monitor the status of structural elements (open/close) to detect an attempt to enter a room. The device sends an alarm notification to the alarm center U-Prox MP security alarm system. Mounted indoors and used to protect doors and windows

#### Radio communication

The detector transmitter operates in several channels with ITU region range autoselection band for reliability. Secure two-way radio communication.

Distance - up to 4800m in line of sight.  
Three grades of power, maximum - up to 20 mW.

#### Setting

The detector is connected to the U-Prox MP control panel and is configured using the U-Prox Installer mobile application.

#### Batteries

The device uses a CR2 battery (included)

## TECHNICAL SPECIFICATIONS

Reed switch threshold	7-15 mm
Maximum number of actuations	> 1 000 000
Radio frequency	ISM-band wireless interface, with several channels
ITU region 1 (EU, UA):	868.0 to 868.6 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)
ITU region 3 (AU):	916.5 to 917 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)
Russian Federation:	868.0 to 868.2 MHz, bandwidth 100kHz, 10 mW max., up to 3200m (in line of sight)
Communication	secure two way communication, sabotage detection, key - 256 bits

Power (lithium battery included)	3V, CR2 battery
standby consumption	< 5 $\mu$ A
transmission consumption	< 45 mA
service life of battery	up to 5 years
Electromagnetic field immunity	8 V/m
Operating temperature range	-20°C to +50°C
Case colour	white, black, dark brown
Dimensions	
Detector	85 x 18.5 x 17.6 mm
Magnet	85 x 11 x 6 mm
Weight	65 grams



# U-Prox Smoke

## Wireless optical smoke alarm



- Light and sound alert
- Enables alarm on all system alarms when one smoke detector is triggered
- Operates up to 3 years on two AAA batteries
- Easy and convenient installation
- Compact size
- Wide operating temperature range

U-Prox Smoke - is a wireless optical smoke alarm designed for notification of smoke detection in residential or industrial premises. A smoke alarm does not prevent fire but allows you to react to danger in time. Every correctly installed smoke detector you will increase your potential escape time.

### Radio communication

The detector transmitter operates in several channels with ITU region range autoselection band for reliability. Secure two-way radio communication. Distance - up to 4800m in line of sight. Three grades of power, maximum - up to 20 mW.

### Setting

The detector is connected to the U-Prox MP control panel and is configured using the U-Prox Installer mobile application.

### Features

Even in case of loss of communication with U-Prox MP, the smoke alarm device will continue to perform its functions. Alarm will be enabled on all devices if at least one of them is triggered.

### Batteries

The device uses AAA batteries (included)

Lithium batteries (FR03)	Usage allowed
Alkaline batteries (LR03) (included)	Usage allowed at temperatures above +5°C
Salt batteries (R03)	<b>Do not use!</b>

## TECHNICAL SPECIFICATIONS

Radio frequency	ISM-band wireless interface, with several channels	Power (alkaline batteries included)	3V, two AAA (LR03) batteries
ITU region 1 (EU, UA):	868.0 to 868.6 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)	standby consumption	< 8 µA
ITU region 3 (AU):	916.5 to 917 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)	transmission consumption	< 70 mA
Russian Federation:	868.0 to 868.2 MHz, bandwidth 100kHz, 10 mW max., up to 3200m (in line of sight)	service life of battery	up to 3 years
Communication	secure two way communication, sabotage detection, key - 256 bits	Sensitivity range (under conditions: cotton smoke, air speed 0.2 m/sec)	0.08-0.12dB/m
		Sound pressure level at 3 m	at least 85 dB
		Operating temperature range	-10°C to +55°C
		Case colour	white
		Detector dimensions	Ø 80 x 45 mm
		Weight	150 grams



# U-Prox Water

## Wireless water leak detector



- No installation required, just put the detector on the bathroom floor, under the washing machine or dishwasher to identify leaks
- Compact size
- Wide operating temperature range

U-Prox Water - is a wireless detector which is designed to detect water leakage. The device sends an alarm notification to the U-Prox MP control panel.

No installation required, for indoor use only.

### Radio communication

The detector transmitter operates in several channels with ITU region range autoselection band for reliability.

Secure two-way radio communication.

Distance - up to 4800m in line of sight.

Three grades of power, maximum - up to 20 mW.

### Setting

The detector is connected to the U-Prox MP control panel and is configured using the U-Prox Installer mobile application.

### Features

Four adjustable gold-plated contact. Activation of two or more sensors at the same time is an alarm.

Built-in accelerometer to detect flipping or incorrect installation.

Sealed case and a temperature sensor

### Batteries

The device uses AAA batteries (included)

Lithium batteries (FR03)	Usage allowed
Alkaline batteries (LR03)	Usage allowed
Salt batteries (R03)	<b>Do not use!</b>

## TECHNICAL SPECIFICATIONS

Number of contacts	4	Power (alkaline batteries included)	3V, two AAA (LR03) batteries
Radio frequency	ISM-band wireless interface, with several channels	standby consumption	< 5 µA
ITU region 1 (EU, UA):	868.0 to 868.6 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)	transmission consumption	< 50 mA
ITU region 3 (AU):	916.5 to 917 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)	service life of battery	up to 5 years
Russian Federation:	868.0 to 868.2 MHz, bandwidth 100kHz, 10 mW max., up to 3200m (in line of sight)	Protection class	IP65
Communication	secure two way communication, sabotage detection, key - 256 bits	Operating temperature range	-10°C to +55°C
		Case colour	white, black
		Detector dimensions	67,5 x 67 x 18 mm
		Weight	55 grams





# CONTROL DEVICES

# U-Prox Keypad G4

## Wireless touch keypad



- Touch surface
- Controls four partitions
- Operates up to 2 years
- Easy and fast installation
- Convenient interface
- Reliable communication
- Sabotage detection
- Programmable key and duress code
- Wide operating temperature range

## TECHNICAL SPECIFICATIONS

Radio frequency	ISM-band wireless interface, with several channels	Power (alkaline batteries included)	3V, four AAA batteries
ITU region 1 (EU, UA):	868.0 to 868.6 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)	standby consumption	< 30 µA
ITU region 3 (AU):	916.5 to 917 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)	active mode consumption	< 80 mA
Russian Federation:	868.0 to 868.2 MHz, bandwidth 100kHz, 10 mW max., up to 3200m (in line of sight)	service life of battery	up to 2 years
Communication	secure two way communication, sabotage detection, key - 256 bits	Operating temperature range	-10°C to +55°C
		Case colour	white, black
		Dimensions	167 x 120 x 15 mm
		Weight	130 grams

U-Prox Keypad G4 - is a wireless keypad designed for arming and disarming, displaying alarms and device status, as well as interaction with the user of the alarm system.

### Radio communication

The device transmitter operates in several channels of with ITU region range autoselection band for reliability. Secure two-way radio communication. Distance - up to 4800m in line of sight. Three grades of power, maximum - up to 20 mW.

### Duress code

System automatically creates duress code for each user code. Duress code works as normal but generates silent alarm being entered. The last digit of duress code is greater than last digit of normal code by one. For example: normal code - 258238 and duress code - 258239, normal code - 182479 and duress code - 182470

### Keypad locking

The keypad will be locked for 10 minutes after the fifth attempt to enter a wrong code.

### Setting

The detector is connected to the U-Prox MP control panel and is configured using the U-Prox Installer mobile application.

### Features

Keypad can control four partitions.

### Batteries

The device uses AAA batteries (included)

Lithium batteries (FR03)	Usage allowed
Alkaline batteries (LR03) (included)	Usage allowed at temperatures above +5°C
Salt batteries (R03)	<b>Do not use!</b>



# U-Prox Keypad G1

Wireless touch mini keypad



- Ergonomic miniature keypad
- Elegant design, slim profile
- Management for one partition (security group)
- Operates up to 2 years on AAA batteries
- Easy and convenient installation
- Compact size
- Wide operating temperature range

## TECHNICAL SPECIFICATIONS

Radio frequency	ISM-band wireless interface, with several channels	Power (alkaline batteries included)	3V, two AAA batteries
ITU region 1 (EU, UA):	868.0 to 868.6 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)	standby consumption	< 30 µA
ITU region 3 (AU):	916.5 to 917 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)	active mode consumption	< 35 mA
Russian Federation:	868.0 to 868.2 MHz, bandwidth 100kHz, 10 mW max., up to 3200m (in line of sight)	service life of battery	up to 2 years
Communication	secure two way communication, sabotage detection, key - 256 bits	Operating temperature range	-10°C to +55°C
		Case colour	white, black
		Dimensions	84.5 x 84.5 x 14.6 mm
		Weight	75 grams

U-Prox Keypad G1 - is a wireless keypad designed for arming and disarming, displaying alarms and device status, as well as interaction with the user of the alarm system.

### Radio communication

The device transmitter operates in several channels of with ITU region range autoselection band for reliability. Secure two-way radio communication. Distance - up to 4800m in line of sight. Three grades of power, maximum - up to 20 mW.

### Duress code

System automatically creates duress code for each user code. Duress code works as normal but generates silent alarm being entered. The last digit of duress code is greater than last digit of normal code by one. For example: normal code – 258238 and duress code – 258239, normal code – 182479 and duress code – 182470\

### Keypad locking

The keypad will be locked for 10 minutes after the fifth attempt to enter an wrong code.

### Setting

The device is connected to the U-Prox MP control panel and is configured using the U-Prox Installer mobile application.

### Features

Keypad can control one partition.

### Batteries

The device uses AAA batteries (included)

Lithium batteries (FR03)	Usage allowed
Alkaline batteries (LR03) (included)	Usage allowed at temperatures above +5°C
Salt batteries (R03)	<i>Do not use!</i>



# U-Prox Keyfob

## Wireless key fob



- 3 control buttons
- One programmable button
- Operates up to 5 years with one battery
- Ergonomic design, compact key fob
- Secure two-way radio communication
- Wireless range up to 100 m
- LED indications

## TECHNICAL SPECIFICATIONS

Radio frequency	ISM-band wireless interface, with several channels
ITU region 1 (EU, UA):	868.0 to 868.6 MHz, bandwidth 100kHz, 10 mW max., up to 100m (in line of sight)
ITU region 3 (AU):	916.5 to 917 MHz, bandwidth 100kHz, 10 mW max., up to 100m (in line of sight)
Russian Federation:	868.0 to 868.2 MHz, bandwidth 100kHz, 10 mW max., up to 100m (in line of sight)
Communication	secure two way communication, sabotage detection, key - 256 bits

Power	3V, CR2032 lithium battery included
service life of battery	up to 5 years
Operating temperature range	-10°C to +55°C
Case colour	white, black
Dimensions	Ø 39 x 9 x 57 mm
Weight	15 grams

U-Prox Keyfob - is a wireless key fob designed to control the U-Prox security system.

It has two buttons for arming and disarming, one programmable key, and a LED indicator for interaction with the user of the alarm system. Can be used as a panic button

### Radio communication

Key fob transmitter operates in several channels of with ITU region range autoselection band for reliability.

Secure two-way radio communication. Distance - up to 100 m in the open space

### Setting

The key fob is registered for the user of the control panel and is configured using the U-Prox Installer mobile application.

### Features

Key fob can only control one partition.



# U-Prox Button

Wireless multi-function button



- One programmable button
- Operates up to 5 years with one CR2032 lithium battery
- Black or white case
- Compact device
- Bracket for mounting
- Secure two-way radio communication
- Wireless range up to 400 m
- Works with radio range extenders
- LED indications

U-Prox Button - is a wireless key fob / button designed to control the U-Prox security system.

It has one programmable key and a LED indicator for interaction with the user of the alarm system. Can be used as a panic button, fire alarm button, medical alert key fob or button, for confirmation of patrol arrival, for switching on or off relay, etc.

It has a bracket for mounting. Button press time is adjustable.

The device is registered for the user of the control panel and is configured with the U-Prox Installer mobile application.

## TECHNICAL SPECIFICATIONS

Radio frequency	ISM-band wireless interface, with several channels
ITU region 1 (EU, UA):	868.0 to 868.6 MHz, bandwidth 100kHz, 10 mW max., up to 300m (in line of sight)
ITU region 3 (AU):	916.5 to 917 MHz, bandwidth 100kHz, 10 mW max., up to 300m (in line of sight)
Russian Federation:	868.0 to 868.2 MHz, bandwidth 100kHz, 10 mW max., up to 300m (in line of sight)
Communication	secure two way communication, sabotage detection, key - 256 bits

Power	3V, CR2032 lithium battery included
service life of battery	up to 5 years
Operating temperature range	-10°C to +55°C
Case colour	white, black
Dimensions	Ø 39 x 9 x 57 mm
Bracket dimensions	Ø 43 x 16 mm
Weight	15 grams







# EXECUTIVE DEVICES

# U-Prox Siren

## Wireless indoor siren



- Elegant design
- Arming confirmation LED connection
- Connection of external reed switch
- Operates up to 5 years on batteries
- Easy and convenient installation
- Light and sound confirmation of the arm and disarm
- Compact size
- Wide operating temperature range

U-Prox Siren - is a wireless indoor siren designed for alarm notification when the wireless detectors of U-Prox MP control panel are triggered. It is installed indoors to scare off intruders and warns the users about the danger. The device has contacts for connecting the arming information LED and external reed switch.

### Radio communication

The device transmitter operates in several channels of with ITU region range autoselection band for reliability. Secure two-way radio communication. Distance - up to 4800m in line of sight. Three grades of power, maximum - up to 20 mW.

### Setting

The device is connected to the U-Prox MP control panel and is configured using the U-Prox Installer mobile application. The volume and running time of the audible alarm are adjustable.

### Features

The time for switching on the built-in indicator or external arming information LED is 15 seconds. For "Armed" status indication, you can set the built-in indicator or external LED to flash once every 10 seconds. If U-Prox is in the "Stay armed" mode, the alarm sound will always be activated at the minimum volume. In the event of an alarm, the U-Prox wireless siren will be activated no later than in 10 seconds (communication period with the control panel).

## TECHNICAL SPECIFICATIONS

Radio frequency	ISM-band wireless interface, with several channels
ITU region 1 (EU, UA):	868.0 to 868.6 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)
ITU region 3 (AU):	916.5 to 917 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)
Russian Federation:	868.0 to 868.2 MHz, bandwidth 100kHz, 10 mW max., up to 3200m (in line of sight)
Power	3V, two CR123A lithium batteries included
standby consumption	< 5 $\mu$ A
transmission consumption	< 35 mA
alarm consumption	< 70 mA
service life of battery	up to 5 years

Communication	secure two way communication, sabotage detection, key - 256 bits
Sound pressure level at 1 m	at least 85 dB
Connection to U-Prox Siren	external LED and reed switch
Volume levels, adjustable	3
Light indication, adjustable	built-in or external indicator
Operating temperature range	-10°C to +55°C
Case colour	white, black
Dimensions	84.5 x 84.5 x 24.3 mm
Weight	134 grams



# U-Prox Siren Outdoor

## Wireless outdoor siren



- Elegant design
- Operates up to 5 years on batteries
- External power supply 12V connection
- Easy and convenient installation
- Light and sound confirmation of the arm and disarm
- Compact size
- Wide operating temperature range

U-Prox Siren Outdoor - is a wireless siren designed for alarm notification when the wireless detectors of U-Prox MP control panel are triggered. It is installed outdoors to scare off intruders and warns the users about the danger.

### Radio communication

The device transmitter operates in several channels of with ITU region range autoselection band for reliability. Secure two-way radio communication. Distance - up to 4800m in line of sight. Three grades of power, maximum - up to 20 mW.

### Setting

The device is connected to the U-Prox MP control panel and is

configured using the U-Prox Installer mobile application. The volume and running time of the audible alarm are adjustable.

### Features

Device has power jack connector to connect external power supply.

The time for switching on the built-in indicator or external arming information LED is 15 seconds.

For "Armed" status indication, you can set the built-in LED to flash once every 10 seconds.

If U-Prox is in the "Armed (Stay)" mode, the alarm sound will always be activated at the minimum volume.

U-Prox Siren Outdoor activates no later than in 10 seconds (communication period with the control panel) after alarm

## TECHNICAL SPECIFICATIONS

Radio frequency	ISM-band wireless interface, with several channels	Power (lithium batteries included)	External power supply 10.8 to 13.8V and battery backup - 3V, four CR123A batteries
ITU region 1 (EU, UA):	868.0 to 868.6 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)	standby current	< 3V @ 3 µA, < 12V @ 2 mA
ITU region 3 (AU):	916.5 to 917 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)	transmission consumption	< 45 mA
Russian Federation:	868.0 to 868.2 MHz, bandwidth 100kHz, 10 mW max., up to 3200m (in line of sight)	alarm current	< 3V @ 0,66 A, < 12V @ 120 mA
Communication	secure two way communication, sabotage detection, key - 256 bits	service life of battery	up to 5 years
		Sound pressure level at 1 m	113 dB
		Operating temperature range	-30°C to +50°C
		Protection class	IP65
		Volume levels, adjustable	3
		Light indication, adjustable	built-in indicator
		Case colour	white
		Dimensions	167 x 120 x 38 mm
		Weight	640 grams



# U-Prox Valve kit

Wireless valve control device



- Open and close the valve, up to 5000 cycles.
- Automatic “run” once a week.
- 868.0 ... 868.6MHz, several channels for redundancy, distance – up to 4800 m in open space
- Device and valve power – two CR123A batteries
- Up to 3 years of battery life
- Simple and convenient installation
- Water valve 1/2 “BB (or 3/4”BB) with backup manual drive
- Compact size
- Wide operating temperature range

## TECHNICAL SPECIFICATIONS

Radio frequency	ISM-band wireless interface, with several channels
ITU region 1 (EU, UA):	868.0 to 868.6 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)
ITU region 3 (AU):	916.5 to 917 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)
Russian Federation:	868.0 to 868.2 MHz, bandwidth 100kHz, 10 mW max., up to 3200m (in line of sight)
Communication	secure two way communication, sabotage detection, key - 256 bits

Power	3V, two CR123A batteries included
standby consumption	< 5 µA
transmission consumption	< 50 mA
consumption in mode "Switching valve"	< 600 mA
service life of battery	up to 3 years
Connection to U-Prox Valve	external 12V
Operating temperature range	-10°C to +55°C
Case colour	white, black
Dimensions	84,5 x 84,5 x 24,3 mm
Weight	135 grams

Motorized valve control device in systems water supply, irrigation, etc. or other external devices. The KLD20S valve in a set.

### Radio communication

The device is equipped with a transceiver 868.0 ... 868.6MHz, with multiple channels for redundancy. Secure two-way radio communication. Distance - up to 4800 m in the open. Three power gradations, maximum - up to 20 mW.

### Settings

The device works only with the center of the U-Prox wireless security system, connection to third-party systems is not provided. U-Prox Valve connects to the security center and is configured using the U-Prox Installer mobile application.

### Features

The delay to turn the external device on or off can be up to 10 seconds. The device detects and displays faults of closing and opening of the valve, and also breakage of a chain of the valve.





# ASSISTIVE DEVICES

# U-Prox Extender

## Radio range extender



- Automatic relaying of devices without additional configuration
- Advanced algorithms for selecting the optimal route for delivering notifications from devices
- Secure two-way radio communication with wireless devices
- Detection of sabotage of the radio channel
- Up to 36 hours without main power
- Simple and convenient installation
- Repeaters in the system: up to 8
- Dimensions: 167 x 120 x 25.4 mm
- Wide operating temperature range

U-Prox Extender - is a range extender. The device significantly increases the radio communication distance between the U-Prox MP control panel and other wireless devices. Supports connection up to 200 devices (sensors, keypads, key fobs, etc.) via radio channel at a distance of up to 4800 m. Distance to U-Prox MP - up to 4800m line of sight.

### Radio communication

Two transmitters - with ITU region range autoselection, several channels for reliability. Secure two-way radio communication with radio channel sabotage detection. Distance - up to 4800 m in the open space. Three grades of power, maximum - up to 25 mW.

### Battery backup

The device is equipped with a 2500 mAh battery and can work for up to 24 hours in the absence of the main power supply

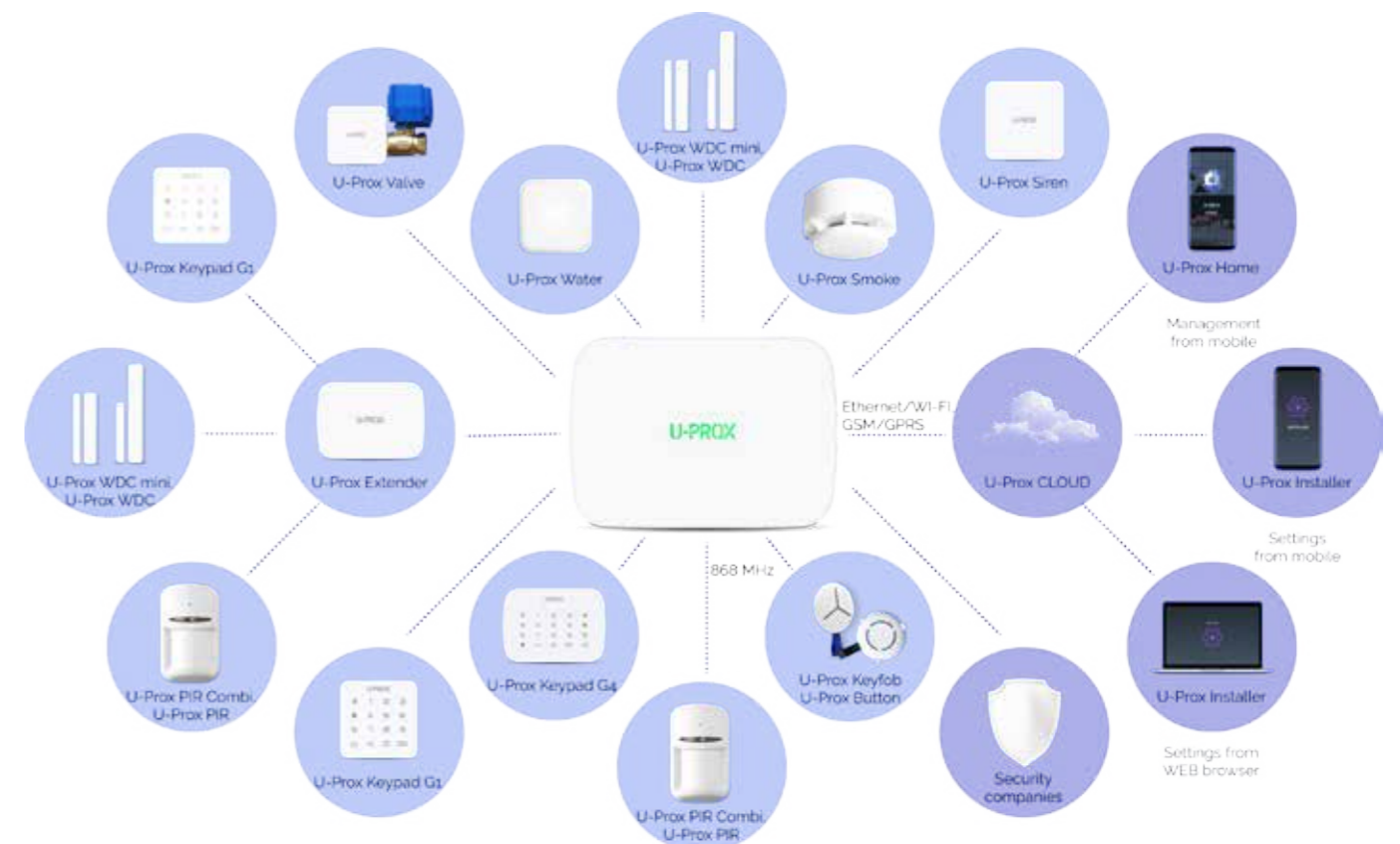
### Features

The radio range extender automatically determines which signals need retransmission. Thanks to new algorithms, extenders and U-Prox MP automatically negotiate optimal data transmission route. In the absence of the main power supply and during the operation from the built-in battery, the device switches to the power saving mode. In this mode, the permanent display of the device status will be switched off and the status will be displayed once every 30 seconds by flashing.

*Please note: when installing and operating the device, observe the general rules and regulations for electrical safety for electrical devices.*

## TECHNICAL SPECIFICATIONS

Repeaters in the system	8	Communication	secure two way communication, sabotage detection, key - 256 bits
Retransmission levels	1	Power supply (power supply unit included)	12 VDC @ 0.25 A
Radio frequency	ISM-band wireless interface, with several channels	Battery backup	2500 mAh battery
ITU region 1 (EU, UA):	868.0 to 868.6 MHz, bandwidth 100kHz, 20 mW max., up to 4800m to U-Prox MP and up to 4800m to wireless devices (in line of sight);	battery runtime	up to 36 hours
ITU region 3 (AU):	916.5 to 917 MHz, bandwidth 100kHz, 20 mW max., up to 4800m to U-Prox MP and up to 4800m to wireless devices (in line of sight);	Operating temperature range	-10°C to +55°C
Russian Federation:	868.0 to 868.2 MHz, bandwidth 100kHz, 10 mW max., up to 3200m to U-Prox MP and wireless devices (in line of sight)	Case colour	white, black
		Dimensions	167 x 120 x 25.4 mm
		Weight	260 grams



# U-Prox Relay DC

DC relay for remote control



- PControlled relay with 10,8...14,8V DC power supply
- Output COM NO, 250VAC/10A or 30VDC/10A DC max.
- Operations > 100 000
- Response delay 5 sec
- Modes impulse, trigger (bistable)
- Impulse duration adjustable: 0.1 ... 250 seconds
- Wide operating temperature range

U-Prox Relay DC - is a wireless low-current relay which is designed to control appliances remotely.

### Setting

The device is connected to the control panel and is configured with the U-Prox Installer mobile application.

## TECHNICAL SPECIFICATIONS

Radio frequency	ISM-band wireless interface with several channels	Output	COM NO, 10A @ 250V AC or 30V DC max
ITU region 1 (EU, UA):	868.0 to 868.6 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)	Operations	> 100 000
ITU region 3 (AU):	916.5 to 917 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)	Modes	Impulse, trigger (bistable)
Russian Federation:	868.0 to 868.2 MHz, bandwidth 100kHz, 10 mW max., up to 3200m (in line of sight)	Impulse duration	adjustable: 0.1 ... 250 seconds
Communication	Secure two way communication, sabotage detection, key - 256 bits	Delay	max. 5 seconds
Power	10.8 ... 13.2V DC	Operating temperature range	-10°C to +55°C
		Case colour	white, black
		Detector dimensions	44 x 36 x 18 mm
		Weight	55 grams

# U-Prox Wireport

Wireless integration module



- Module with 3 inputs: ALM1, ALM2 and TMP
- Power output 3V, 50 mA max
- Three CR123A batteries
- Up to 5 years of battery life
- 868.0 ... 868.6MHz, several channels for redundancy, distance – up to 4800 m in open space
- Wide operating temperature range
- Compact size

U-Prox Wireport - is a wireless module with 3 inputs, designed to connect wired equipment (detectors, IR barriers etc.) to wireless U-Prox control panel. It has 3V controlled power output and can be built into detectors.

### Setting

The device is connected to the control panel and is configured with the U-Prox Installer mobile application.

## TECHNICAL SPECIFICATIONS

Radio frequency	ISM-band wireless interface with several channels	Inputs	3 - ALM1, ALM2 (Alarm) and TMP (Tamper switch)
ITU region 1 (EU, UA):	868.0 to 868.6 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)	Power output	3V, 50 mA max
ITU region 3 (AU):	916.5 to 917 MHz, bandwidth 100kHz, 20 mW max., up to 4800m (in line of sight)	Battery	Three (3) CR123A batteries, 1500 mAh. Up to 5 years, (2 wired detectors, 24 µA each in standby)
Russian Federation:	868.0 to 868.2 MHz, bandwidth 100kHz, 10 mW max., up to 3200m (in line of sight)	Operating temperature range	-10°C to +55°C
Communication	Secure two way communication, sabotage detection, key - 256 bits	Detector dimensions	89.7 x 38.8 x 20.5 mm
		Weight	340 grams



# DEVICES KITS







# U-Prox MP kit

Starter kit with Ethernet



### The kit includes:





-  Main unit U-Prox MP
-  Motion detector U-Prox PIR
-  Magnetic door/window contact U-Prox WDC mini (with additional case)
-  Keypad U-Prox Keypad G1

# U-Prox MP WiFi S kit

Starter kit with Wi-Fi







### The kit includes:

-  Main unit U-Prox MP WiFi
-  Motion detector U-Prox PIR
-  Magnetic door/window contact U-Prox WDC mini (with additional case)
-  Key fob U-Prox Keyfob

# U-Prox MP WiFi kit

Starter kit with Wi-Fi

### The kit includes:

-  Main unit U-Prox MP WiFi
-  Motion detector U-Prox PIR
-  Magnetic door/window contact U-Prox WDC mini (with additional case)
-  Keypad U-Prox Keypad G1





# MOBILE AND WEB APPLICATIONS

# U-Prox Installer app



U-Prox Installer



- Control devices from U-Prox Home users' mobile app via U-Prox Cloud
- Configuration with U-Prox Installer mobile app via U-Prox Cloud
- Service and centralized management via U-Prox Installer with smartphones or web application
- The classic scheme for delivering events to the alarm station



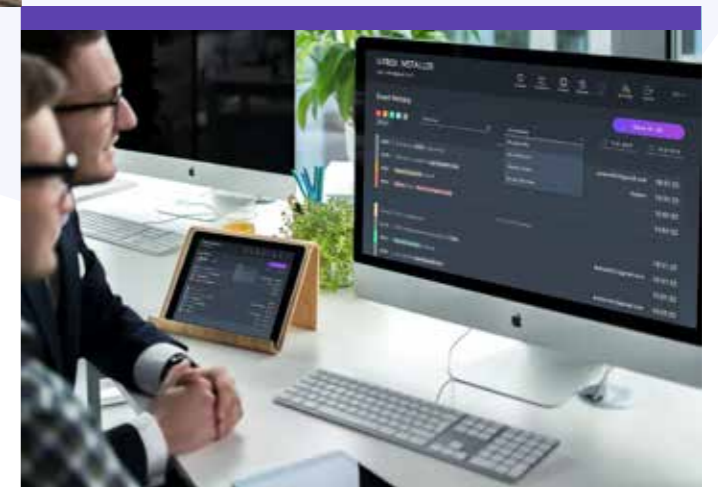
Fine-tuning of the system:  
adjusting wireless system elements

Connection to the Contact ID software:  
operation with alarm system



Communications test: radio quality check

Manage arming of all groups  
simultaneously



# U-Prox Home

Users' application



U-Prox Home



- For the user, the most convenient way to control the system is a smartphone with the U-Prox Home app
- It is as simple as possible and not overloaded with unnecessary information
- Arm and Stay arm modes
- Disarming with one movement
- Panic button
- Receiving push notifications of alarm events, arming and disarming of the system
- Viewing event log
- Controlling of partitions (security groups) and appliances
- Controlling of multiple devices
- Viewing video from cameras
- Managing of users



Receive alarm alerts instantly

Arm and disarm in one move



View the status of system elements



Manage arming of all groups simultaneously





# CONNECTION PROTOCOLS

## Connection to Monitoring Centers

U-Prox alarm system works with most ContactID-compatible monitoring programs.

### Connection to monitoring software is possible with:

- Direct connections with SIA DC-09 protocol;
- Direct connections with free cross-platform software, U-Prox Translator;
- Connections via cloud with free cross-platform software, U-Prox Console.

### How the U-Prox Translator works:

- Software works with U-Prox MP and U-Prox Hub via a secure two-way protocol;
- U-Prox Translator connects to the monitoring station software via TCP, UDP or via a virtual COM port;
- Data from U-Prox MP and U-Prox Hub converted to ContactID protocol;
- U-Prox Translator controls the uniqueness of U-Prox devices.

### How the U-Prox Console works:

- Software connects to the U-Prox SAS Cloud and works with via a secure two-way protocol;
- U-Prox MP and U-Prox Hub send events to cloud;
- U-Prox Console connects to the monitoring station software via TCP, UDP or via a virtual COM port;
- The U-Prox Console gets data from U-Prox MP and U-Prox Hub via cloud and converts its to ContactID protocol.

### U-Prox Console

- one software for Windows and Linux;
- REST API for integration with other software;
- WEB interface to control U-Prox devices;
- controls the uniqueness of U-Prox devices (anti-sabotage); event history reports;
- “black” and “white” list of devices.



### U-Prox Translator

- one software for Windows and Linux;
- REST API for integration with other software;
- WEB interface to control U-Prox devices;
- remote commands: status, remote arming, block arming, firmware upgrade, backup and restore configuration;
- controls the uniqueness of U-Prox devices (anti-sabotage);
- event history reports;
- “black” and “white” list of devices.

# Anti-Sabotage

To counteract threats of sabotage, the U-Prox system has a comprehensive protection system. It prevents an intruder from interfering with the system and instantly sends an alarm in the event of a malfunction.

## ANTI-VANDAL PROTECTION

Each device is equipped with a tamper switch - it prevents unauthorized device opening and tearing off from the surface. When the tamper is triggered the device sends alarm to the control panel.

## DATA AND DEVICES SPOOFING PROTECTION

Each U-Prox device has a unique identification number - a serial number, or GID. Each data packet contain GID and unique packet-ID number. Control panels checks GID and packet-ID so we can prevent data spoofing, packets retransmitting and substitution device.

## CONNECTION CHECKS

The U-Prox radio technology provides a two-way secured communication. The protocol is protected by a strong symmetric block cipher algorithm with a private security key 256 bits length.

Each device periodically sends a special data packet (heartbeat) to notify the control panel about its state.

When the heartbeat was not received in time the U-Prox system sends an alarm notification that the connection with the detector is lost.

## PROTECTING THE INTEGRITY OF THE INTERNET CABLE

The central control unit sends out alarms via Ethernet or WI-FI. If there is no Internet connection, then alarms are sent with backup GSM / GPRS connection.

## DE-ENERGIZING PROTECTION

U-Prox MP control panel has a battery backup with 2500 mAh lithium-ion battery. When there is no main power U-Prox MP can work up to 24 hours.

All U-Prox devices are wireless and powered by high quality batteries.

Control panel will send notification on mains fails and when some device has low battery.



# U-Prox radio technology

One of the main advantages of the U-Prox wireless security system is the U-Prox radio technology patented technology. Thanks to this unique technical solution, multi-speed connections between devices are reliable, stable and secure.

**U-Prox radio technology has several features:**



## Wireless interface

Operating in the ISM-band with ITU range autoselection, several channels and speeds for reliability.



## Radio range

Stable communication between devices in a distance up to 4800 meters in the line of sight. U-Prox radio technology provides stable communication even in multi-store buildings.



## Radio transmitter adjusts speed and sensitivity automatically

In case of sabotage or low signal, devices' transmitter changes channels, sensitivity, power and speed of data transmission.



## Control panel radio

The control panel is equipped with two independent radio transmitters with two antennas located in the devices. The control panel always works with the sensors, keypad etc. by selecting the optimal communication route based on transmitter, signal levels, speed and channel.



## Automatic power adjustment

All devices have three gradations of power, the maximum - up to 20 mW. Power adjusted automatically due to the signal level. This ensures a stable connection and efficient energy consumption of the devices.



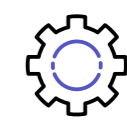
## Encrypted communication

The system provides secure two way communication with sabotage detection. Protocol is protected by a reliable symmetric block encryption algorithm with a private security key - 256 bits.



## Maximum possibilities

The control panel supports connection of up to 250 devices (sensors, keypads, key fobs, relay etc.) via the U-Prox radio technology radio frequency at a distance of up to 4800 m.



## Firmware updates

U-Prox radio technology supports wireless firmware update for each device even for key fobs





# UPCOMING PRODUCTS

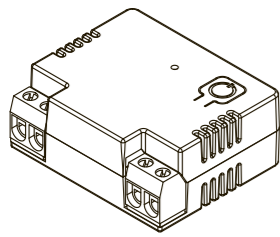


## Upcoming Product

We constantly strive to improve our products taking into account the requirements of everyday life. So we do not stand still we continue to look for more and more new solutions.

In the near future, the U-Prox product line will be supplemented with several more models, which will complement, enhance and add convenience to our users.

Our company is always open to new proposals.



**U-Prox Relay AC**

Controlled relay with 220V power supply



**U-Prox PIR Cam**

PIR sensor with camera for indoor use.



**U-Prox Multiplexer**

Module for connecting wired sensors. 8 zones, relay, LED, SWA, AUX. Built-in Li-ion battery.



**U-Prox Hub LTE**

New wireless alarm U-Prox control panel with LTE and Wi-Fi. New powerful processor, more memory and features



**U-Prox Hub Eth**

New wireless alarm U-Prox control panel with LTE, Ethernet and Wi-Fi. New powerful processor, more memory and features

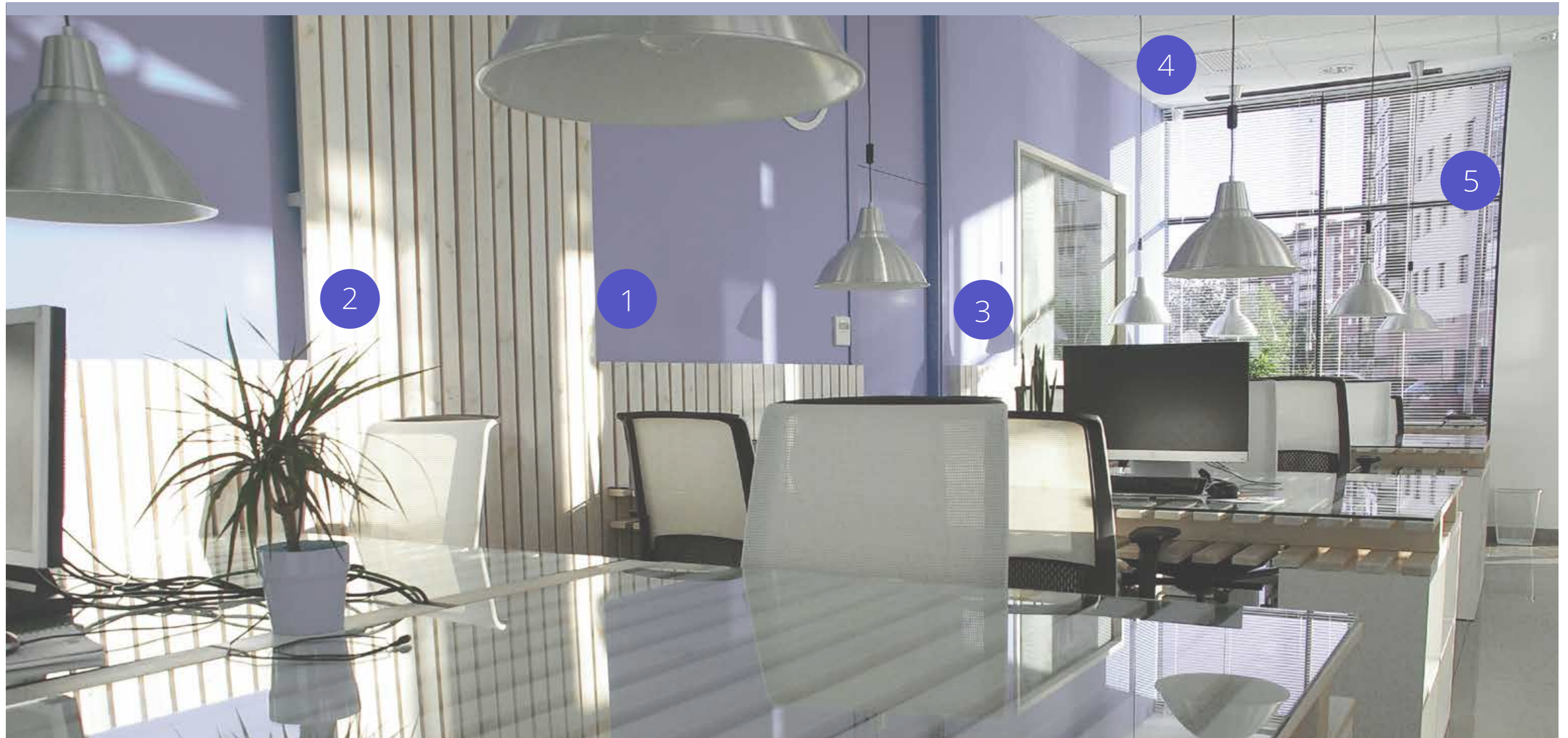


**U-Prox Keypad G4+**

Wireless keypad with touch surface, dedicated buttons for 4 partitions control. Power - Li-Ion battery. Works with U-Prox Key via NFC, 2.4 GHz radio and Mifare Plus SL1/SL3 tags.

## Where to install?

1. U-Prox MP control panel
2. U-Prox Siren

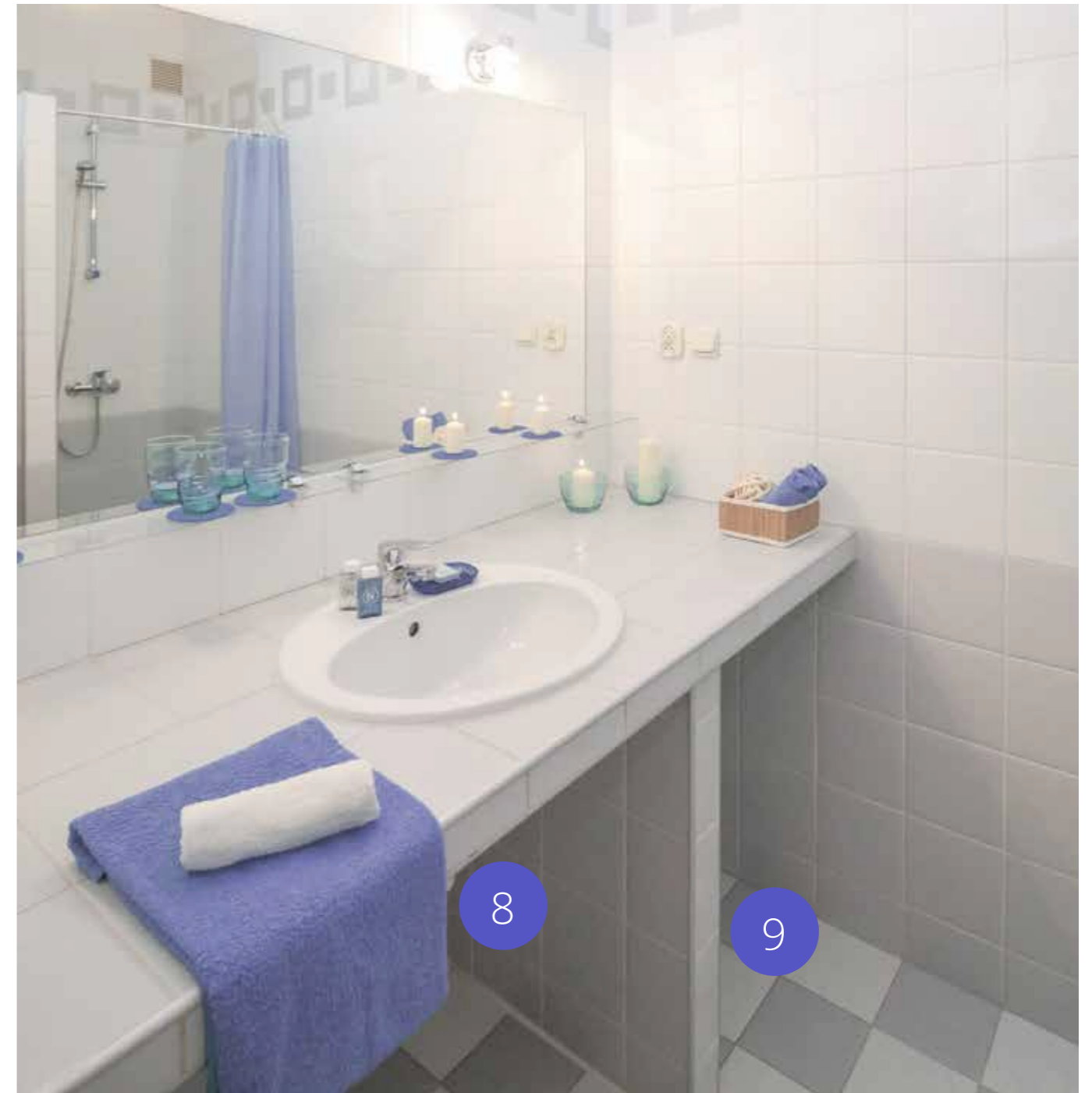
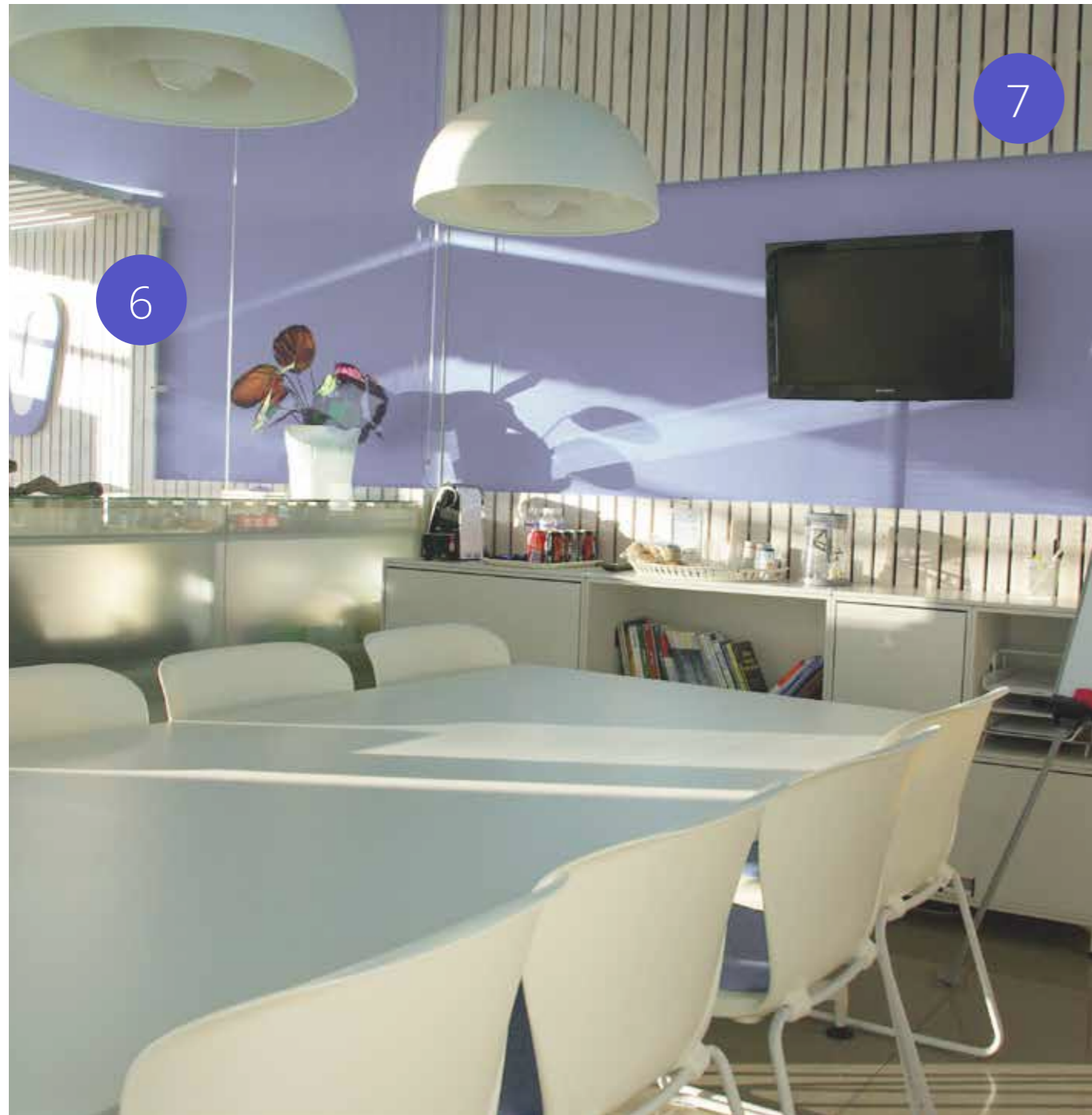
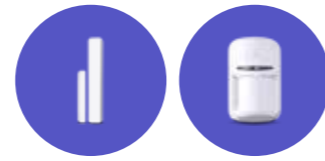


3. U-Prox Keypad G4
4. U-Prox Smoke
5. U-Prox WDC mini



# Where to install?

- 6. U-Prox WDC
- 7. U-Prox PIR Combi



- 8. U-Prox Valve
- 9. U-Prox Water



