AJAX HUB Wireless Security Control Panel User Guide

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AJAX HUB Wireless Security Control

The Hub coordinates operation of the Ajax security system supporting connection to up to 100 devices via the Jeweller wireless protocol, with an effective communication range of up to 2,000 meters without obstacles. The hub is controlled via a mobile application from any point of the world, and an Internet connection is required for operation. For reliability, two communication channels are used – wire Ethernet channel and the GSM network of a mobile operator (GPRS). If any problem occurs, both you and the security company will be notified immediately. The Hub is equipped with an accumulator unit providing up to 14 operational hours.

IMPORTANT: This Quick Start Guide contains general information about the Hub. Before using the device, we recommend to reviewing the User Manual on the website: **ajax.systems/support/hubs**

LOCATION SELECTION AND INSTALLATION

There should be reliable communication with the Ajax security devices connected to the hub, as well as Internet access – via the GSM (GPRS) network and/or Ethernet. It is desirable that the hub is kept close to the vest. **Do not position the Hub:**

1. Outside the premises (outdoors).

2. Nearby any metal objects and mirrors causing radio signal attenuation or screening it.

3. In places with a high radio interference level.

4. Within any premises with a temperature beyond the range of permissible limits.

The SmartBracket panel is mounted on the surface with screws or any other no less reliable attachment hardware. The hub should be fixed on the panel with the bundled screws. In installing and operating the Hub, follow the general electrical safety regulations for using electrical appliances, as well as the requirements of regulatory legal acts on electrical safety. It is strictly prohibited to disassemble the device under voltage and use it

with the damaged power cord.
Do not disassemble or modify the Hub or its parts. This may disrupt the device or lead to its failure.

CONNECTION AND SETTING UP

1. **Following prompt messages, add the hub to the application –** it will appear in the list of devices and will update the system information in a minute.
2. **You may set up notifications for each of the users in the hub settings:** Push notifications, SMS messages, and telephone calls If you need to adjust the parameters of the Ethernet and GSM connections, as well as the Jeweller protocol.

CONNECTING THE AJAX TO A SECURITY COMPANY

Connection to the central monitoring station is made via the Contact ID protocol. A list of organizations supporting the Ajax system is available in the menu "Security companies" in the Hub settings.
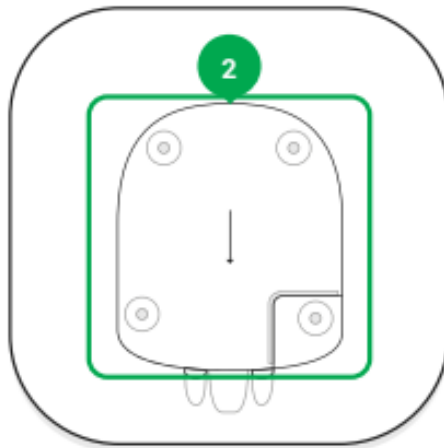
COMPLETE SET

1. 1. Hub.
2. Power supply cable.
3. Ethernet cable.
4. Installation kit.
5. GSM start package.**
6. Brief User Guide.

TECH SPECS

- Maximum number of connected devices 100
- Maximum number of logical rooms 50
- Maximum number of the Hub users 50
- Power supply 110 – 250 V
- Accumulator unit Li-Ion 2 Ah (up to 14 hours of autonomous operation*)
- Anti-tamper switch Yes
- Frequency band 868.0-868.6 mHz
- Effective radiatedc power 8.20 dBm / 6.60 mW (limit 25 mW)
- Modulation GFSK
- Radio signal Up to 2,000 m (any obstacles absent)
- Communication channels GGSM 850/900/1800/1900 MHz GPRS, Etherne
- Operating temperature range From 0°C to +50°C
- Overall dimensions 162.7 x 162.7 x 35.9 mm
- Weight 330 g

In case of an inactive Ethernet connection.

FUNCTIONAL ELEMENTS

1. Logo with a light indicator.
2. SmartBracket attachment panel.
3. Socket for connecting a
4. power supply cable.
5. Socket for connecting an
6. Ethernet cable.
7. Slot for installing a card of a cellular service provider (Micro SIM type).
8. QR code.
9. Tamper button.
10. On/Off button.

CONNECTION AND SETTING UP

1. By moving the SmartBracket panel down, connect the power cables and Ethernet to the sockets, as well as install a SIM card of the mobile operator with the disabled PIN code request.
2. Switch on the hub by pressing the button for 2 seconds and wait for a minute – the logo will change color to white (there is a connection to the server via Ethernet and GSM) or green (only one communication channel is active). If the logo continues to light red, follow the recommendations in the User Manual.
3. Install a mobile application or open a web application in your browser and create an Ajax account.

Ajax Security System

IMPORTANT INFORMATION

This product can be used across all EU member states.
This device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. All essential radio test suites have been carried out.

CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

Function	Operation frequency	Max RF output power	Limit
GPRS / EDGE 900	TX (Uplink): 880M-915MHZ RX (Downlink): 925M-960MHZ	GPRS 900: 33.66dBm EDGE 900: 27.57dBm	class 4 (33±3dBm)
GPRS / EDGE 1800	TX (Uplink): 1710M-1785MHZ RX (Downlink): 1805M-1880MHZ	GPRS 1800: 29.61dBm EDGE 1800: 25.78dBm	class 1 (30±3dBm)

WARRANTY

The warranty for the Ajax Systems Inc. devices is valid for 2 years after the purchase and does not apply to the supplied battery. If the device does not work correctly, you should first contact the support service—in half of the cases, technical issues can be solved remotely!
The full text of the warranty is available on the website: ajax.systems/warranty User Agreement: ajax.systems/end-user-agreement

- **Technical support: support@ajax.systems**
- **Manufacturer: Research and Production Enterprise "Ajax" LLC Address: Sklyarenko 5, Kyiv, 04073, Ukraine**
- **By request of Ajax Systems Inc.**
- **www.ajax.systems**

Documents / Resources

AJAX HUB Wireless Security Control Panel [pdf] User Guide
HUB, Wireless Security Control Panel, HUB Wireless Security Control Panel, Security Control Panel, Control Panel, Panel