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Ajax 98789 Remote Control Net Alarms User Manual

User Manual

Ajax SpaceControl User manual
Updated July 6, 2023

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98789 Remote Control Net Alarms

Ajax SpaceControl is a miniature key fob with accidental click protection. It allows setting the Ajax system in the armed, night or disarmed mode and switching on an alarm.
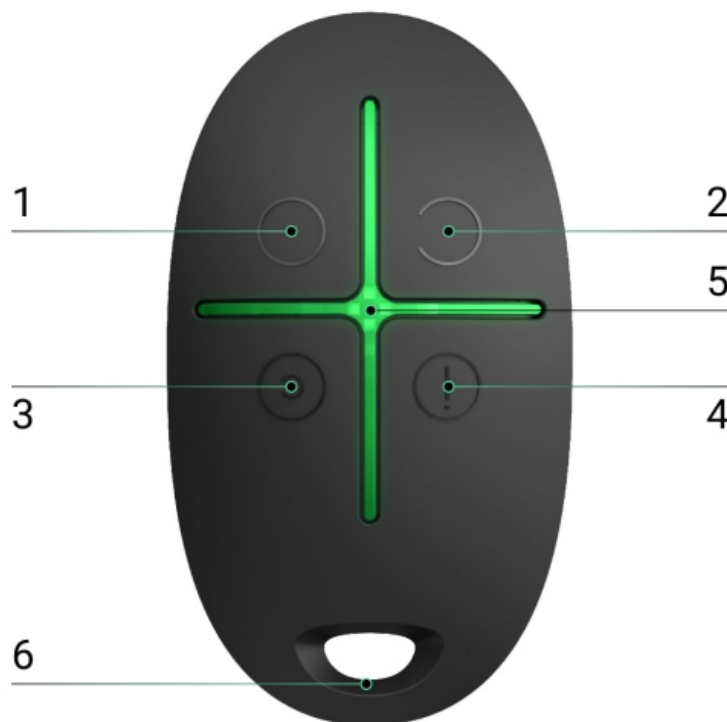As it is the two-way communication, you will know whether the system has received the Ajax SpaceControl command.
Operating as part of the Ajax system, the key fob is connected to the **hub** via the protected **Jeweller** protocol. In addition, the key fob can be used to control any third-party security central unit through the **uartBridge** or **ocBridge Plus** integration module.
The key fob is set up through the iOS and Android-based **mobile app for smartphones**.
Buy key fob Ajax SpaceControl

Functional elements

1. System arming button

2. System disarming button

3. Night mode button

4. Panic button (activates the alarm)

5. Light indicators
6. The hole for attaching the key fob

ⓘ Buttons can be assigned when using a key fob with hub and Ajax uartBridge. At the moment, the feature of modication of commands (and deactivation) of the key fob buttons when using with the Ajax hub is not available.

Using the key fob

00:01   00:12

Maximum connection distance between the key fob and the hub — 1,300 meters. This distance is reduced by walls, inserted oors and any objects hindering the signal transmission.
Ajax SpaceControl operates only with one security system (Ajax or third-party via the integration module). If you connect the key fob to a new security system, it will cease to interact with the previous system. However, the key fob will not be automatically deleted from the list of devices of the hub.
The key fob can:

- Arm the system — press the button ⭕ once
- Turn on the night mode — press the button ◌ once
- Disarm the system — press the button ◡ once
- Switch on an alarm — press the button ⊙ once

To turn off the actuated security system (siren), press the disarming mode button ◡ on the keyf ob.

ⓘ Accidental click protection is available on the Ajax SpaceControl with rmware version 5.54.1.0 and higher.

Operational Indication

The key fob reports its status only after any button is pressed.
Type and color of indication of the key fob display depends on the rmware version of the device. You can nd out

the rmware version in the Ajax application → Devices ▬ → key fob. Information about the rmware version is displayed at the very bottom.

Indication	Event
4 green key fob LEDs ashes 6 times	The key fob is not registered with any security system
2 green LED next to the pressed button lights up once	The key fob command has been sent over to thesecurity system
Firmware version 3.16 and lower The LED next to the pressed button quickly ashes green 4 times Firmware version 3.18 and higher The central LED lights up red briey	The command has not been delivered as the security system is too far away and cannot receive the command
2 LED next to the button lights up green twice. Then 4 key fob LED ashes green 6 times	The key fob has been removed from the security system devices
The central LED lights up green for a few seconds	Linking a key fob to the security system
Firmware version 3.18 and higher The central LED lights up green for approximately half a second	The system has executed the key fob command
Firmware version 3.18 and higher The central LED lights up red for approximately half a second	The system has not executed the key fob command — integrity verication is enabled in the system and one of the devices is faulty **What is system integrity check?**
Firmware version 3.16 and lower After the main indication, the central LED lights up green once and gradually goes out Firmware version 3.18 and higher After the main indication, the central LED lights up red once and goes out gradually	The key fob battery needs replacement. In this case, the key fob commands are delivered to the security system. **Battery replacement**
Firmware version 3.16 and lower Continuous short LED ashes of green light Firmware version from 3.18 to 3.52 Continuous short LED ashes of red light Key fobs with rmware version 3.53 and latest do not function when the battery charge	The battery charge level is unacceptably low. The battery requires replacement. In this operation mode, the key fob commands are not delivered to the security system. **Battery replacement**
level is unacceptably low, do not communicate commands to the hub, and do not notify with LED indication	

Connecting the key fob to the Ajax System

Connection to hub
Before starting connection:

1. Following the hub instruction recommendations, install the **Ajax application** on your smartphone. Create an account, add the hub to the application, and create at least one room.
2. Go to the Ajax application.
3. Switch on the hub and check the internet connection (via Ethernet cable and/or GSM network).
4. Ensure that the hub is disarmed and does not start updates by checking its status in the mobile application.

ⓘ Only users with administrative privileges can add the device to the hub.

How to connect key fob to hub:

1. Select the Add Device option in the Ajax application.
2. Name the device, scan/write manually the QR Code (located inside the body, on the battery xture and packaging), and select the location room.
3. Select Add — the countdown will begin.
4. Simultaneously press the button for armed mode ◯ and the panic button ⊘ — the key fob will blink with the central LED. For the detection and interfacing to occur, the key fob should be located within the coverage area of the wireless network of the hub (at a single protected object).

The key fob connected to the hub will appear in the list of devices of the hub in the application.

Connecting the key fob to Third-Party Security Systems

To connect the key fob to a third-party security central unit using the **Ajax uartBridge** or **Ajax ocBridge Plus** integration module, follow the recommendations in the manual of the respective device.

States

1. Devices ▬
2. Ajax SpaceControl

Parameter	Value
Battery Charge	Battery level of the device. Two states available: • OK • Battery discharged **How battery charge is displayed in Ajax apps**
Accidental Press Protection	Indicates the method of protection against accidental clicks: • Off • Long press • Double click
	The function is available on key fobs with rmware version 5.54.1.0 and higher
The status of the connection with the ReX range extender	Displayed if the key fob is working through a **radio signal range extender**
Panic	Panic button status
Permanent Deactivation	Displays the device's status: active or completely disabled by the user
Firmware	Firmware version of the key fob. It is not possible to change the rmware
Device ID	Device identier

Setting Up the key fob

1. Devices ▬

2. Ajax SpaceControl

3. Settings ⚙

Setting	Value
Name	Device name, can be edited
Room	Selecting the virtual room to which the device is assigned
Group Management	Selection of a security group that the key fob manages. You can select All groups or a single group. ? Conguration is available only after group mode activation

User	Selection key fob user. Key fob is unassigned: Key fob events are sent to Ajax apps under the key fob name. Security mode management rights are determined by key fob settings. Key fob is assigned to user: Key fob events are sent to Ajax apps under the user's name. The key fob has the same security mode management rights as the user.
Panic	Turning on/off the panic button
Accidental Press Protection	Choosing the method of protection against accidental clicks: Off — protection is turned off Long press — in order for the key fob to transmit the command to the hub, you need to press and hold the button for more than 1.5 seconds Double press — in order for the key fob to transmit the command to the hub, you need to double-press the button with a pause of no more than 0.5 seconds between the presses The function is available on key fobs with rmware version 5.54.1.0 and higher
Alert with a siren if panic button is pressed	If the toggle is enabled, pressing a panic button activates **Ajax sirens** connected to the system. Ajax SpaceControl activates all sirens, regardless of the groups they are in.
User Guide	Opens the device User manual
Permanent Deactivation	Allows a user to deactivate the device without deleting it from the system. Once deactivated, the device will no longer execute system commands and participate in automation scenarios. Additionally, the panic button of a deactivated device will be disabled. **Learn more**
Unpair Device	Disconnects the device from the hub and deletes its settings

Key fob maintenance and battery replacement
When cleaning the key fob body, use any means suitable for equipment maintenance.
Do not use for cleaning Ajax SpaceControl any substances containing alcohol, acetone, gasoline, and other active solvents.
The pre-installed battery provides up to 5 years of operation of the key fob during normal use (one arming and disarming of the security system per day).
More frequent use can reduce battery life. You can check battery level at any time in the Ajax app.

⚠️ Keep new and used batteries away from children. Do not ingest battery, Chemical Burn Hazard.
The pre-installed battery is sensitive to low temperatures and if the key fob is signicantly cooled, the battery level indicator in the app may show incorrect values until the key fob gets warm.

ℹ️ The value of the battery level is not updated regularly, but only after pressing one of the buttons at the key fob.
When the battery is discharged, the user will receive a notication in the Ajax app, and the key fob LED will slowly light up and go out red each time the button is pressed (key fobs with rmware version 3.16 and lower light up

green).

Tech Specs

Number of buttons	4
Panic button	Yes
Accidental click protection	Available with the rmware version 5.54.1.0 and higher. Manufacture date from March 19, 2020 **How to nd out the manufacture date of a detector or device**
Radio communication protocol	Jeweller **Learn more**
Radio frequency band	866.0 – 866.5 MHz 868.0 – 868.6 MHz 868.7 – 869.2 MHz 905.0 – 926.5 MHz 915.85 – 926.5 MHz 921.0 – 922.0 MHz Depends on the region of sale.
Compatibility	Operates with all Ajax , **hubs radio signal range exten ders ocBridge Plus uartBridge**
Effective radiated power	6.01 dBm / 3.99 mW (limit 20 mW)
Modulation of the radiosignal	GFSK
Radio signal range	Up to 1,300 m (any obstacles absent)
Power supply	1 battery CR2032A, 3 V
Service life from the battery	Up to 5 years (depending on the usage frequency)
Operating temperature range	From -25°C to +50°C
Operating humidity	Up to 95%
Overall dimensions	65 × 37 × 10 mm
Weight	13 g
Service life	10 years
Certication	Security Grade 2, Environmental Class III in conformity with the requirements of EN 501311, EN 50131-3, EN 5 0131-5-3

Compliance with standards

Complete Set

1. Ajax SpaceControl
2. Battery CR2032 (pre-installed)

3. Quick start guide

Warranty
Warranty for the Limited Liability Company "Ajax Systems Manufacturing" products is valid for 2 years after the purchase and does not apply to the preinstalled battery.
If the device does not work correctly, you should rst contact the support service — in half of the cases, technical issues can be solved remotely!

The full text of the warranty
User Agreement
Technical support: **support@ajax.systems**
Subscribe to the newsletter about safe life. No spam
Subscribe………..Email…….

Documents / Resources

Ajax SpaceControl User manual	**Ajax 98789 Remote Control Net Alarms** [pdf] User Manual 98789 Remote Control Net Alarms, 98789, Remote Control Net Alarms, Control Net Alarms, Net Alarms

References

- ✉ **End user agreement - Ajax Systems**
- ✉ **Ajax SpaceControl — security system key fob | Ajax Systems**
- ✉ **Security system control panels | Ajax Systems**
- ✉ **ocBridge Plus — Module for Ajax devices integration with wired systems**
- ✉ **Signal range extenders in the security system | Ajax Systems**
- ✉ **Alarm sirens for Ajax security systems**
- ✉ **uartBridge — Module for Ajax devices integration with third-party wireless alarms systems**
- ✉ **Software | Ajax Systems**
- ✉ **Warranty - Ajax Systems**
- ✉ **How battery charge is displayed in Ajax apps | Ajax Systems Support**
- ✉ **How to find out the the Ajax device production date | Ajax Systems Support**
- ✉ **How long Ajax devices operate on batteries, and what affects this | Ajax Systems Support**
- ✉ **How to deactivate a device without removing it from the system | Ajax Systems Support**
- ✉ **How to change the battery in SpaceControl | Ajax Systems Support**

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