



ajax KeyPad User Manual

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KeyPad User Manual

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KeyPad is a wireless indoor touch-sensitive keyboard for managing the Ajax security system. Designed for indoor use. With this device, the user can arm and disarm the system and see its security status. Key Pad is protected against attempts to guess the pass-code and can raise a silent alarm when the pass-code is entered under duress.

Connecting to the Ajax security system via a secured Jeweller radio protocol, Key Pad communicates with the hub at a distance of up to 1,700 m in line of sight.

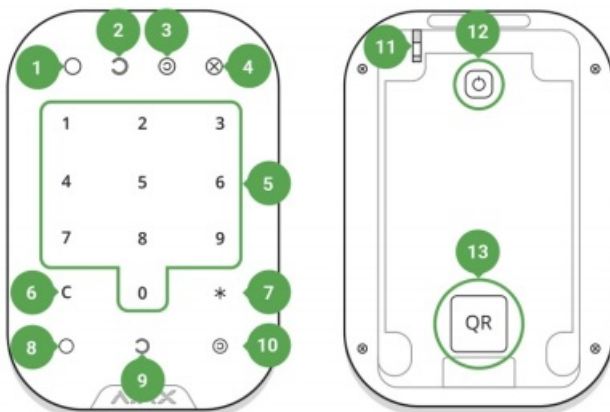


KeyPad operates with Ajax hubs only and does not support connecting via ocBridge Plus or uartBridge integration modules.

The device is set up via the **Ajax apps** for iOS, Android, macOS, and Windows.

Buy keypad KeyPad

Functional elements



1. Armed mode indicator
2. Disarmed mode indicator
3. Night mode indicator
4. Malfunction indicator
5. The block of numerical buttons
6. "Clear" button
7. "Function" button
8. "Arm" button
9. "Disarm" button
10. "Emergency" button
11. Micro-USB port
12. Camera lens
13. QR code

10. "Night mode" button
11. Tamper button
12. On/Off button
13. QR code

To remove the SmartBracket panel, slide it down (perforated part is required for actuating the tamper in case of any attempt to tear off the device from the surface).

Operating Principle

KeyPad is a stationary control device located indoors. Its functions include arming/disarming the system with a numerical combination (or just by pressing the button), activating Night Mode, indicating the security mode, blocking when someone tries to guess the passcode and raising the silent alarm when someone forces the user to disarm the system.

KeyPad indicates the state of communication with the hub and system malfunctions. Buttons are highlighted once the user touches the keyboard so you can enter the passcode without external lighting. KeyPad also uses a beeper sound for indication.

To activate KeyPad, touch the keyboard: the backlight will switch on, and the beeper sound will indicate that KeyPad has woken up.

If the battery is low, the backlight switches on at a minimum level, regardless of the settings.

If you do not touch the keyboard for 4 seconds, KeyPad dims the backlight, and after another 12 seconds, the device switches to the sleep mode.

When switching to sleep mode, KeyPad clears the entered commands!

KeyPad supports passcodes of 4-6 digits. The entered passcode is sent to the hub after pressing the button: (arm), (disarm) or (Night mode). Incorrect commands can be reset with the C button (Reset).

When incorrect passcode is entered three times during 30 minutes, KeyPad locks for the time preset by the administrator user. Once KeyPad is locked, the hub ignores any commands, simultaneously notifying the security system users of the attempt to guess the passcode. The administrator user can unlock KeyPad in the app. When the pre-set time is up, KeyPad unlocks automatically.

KeyPad allows arming the system without passcode: by pressing the button (Arm). This feature is disabled by default.

When the function button (*) is pressed without entering the passcode, the hub executes the command assigned to this button in the app.

KeyPad can notify a security company of the system being disarmed by force. The Duress Code – unlike the panic button – does not activate sirens. KeyPad and the app notify of successful disarming the system, but the security company receives an alarm.

Indication

When touching KeyPad, it wakes up highlighting the keyboard and indicating the security mode: Armed, Disarmed, or Night Mode. The security mode is always actual, regardless of the control device that was used to

change it (the key fob or app).

or app).

Event	Indication
Malfunction indicator X blinks	Indicator notifies about lack of communication with hub or keypad lid opening. You can check the Ajax Security reason for malfunction in the System app.
KeyPad button pressed	A short beep, the system's current arming state LED blinks once
The system is armed	Short sound signal, Armed mode / Night mode LED indicator lights up
The system is disarmed	Two short sound signals, LED disarmed LED indicator lights up

Incorrect passcode – Long sound signal, the keyboard backlight blinks 3 times

Failed to arm one or several detectors (e.g., a window is opened)	Long sound signal, the security mode indicator blinks 3 times
A malfunction is detected when arming (e.g., the detector is lost)	A long beep, the system's current arming state LED blinks 3 times
The hub does not respond to the command — no connection	Long sound signal, the malfunction indicator lights up
KeyPad is locked after 3 unsuccessful attempts to enter the passcode	Long sound signal, security mode indicators blink simultaneously
Low battery	<p>After arming/disarming the system, the malfunction indicator blinks smoothly. The keyboard is locked while the indicator blinks.</p> <p>When activating KeyPad with low batteries, it will beep with a long sound signal, the malfunction indicator smoothly lights up and then switches off.</p>

Connecting

Before connecting the device:

1. Switch on the hub and check its Internet connection (the logo glows white or green).
2. Install the Ajax app. Create the account, add the hub to the app, and create at least one room.
3. Make sure that the hub is not armed, and it does not update by checking its status in the Ajax app. Only users with administrator rights can add a device to the app

How to connect KeyPad to the hub:

1. Select the Add Device option in the Ajax app.
2. Name the device, scan/write manually the QR Code (located on the body and packaging), and select the location room.
3. Select Add — the countdown will begin.
4. Switch on KeyPad by holding power button for 3 seconds – it will blink once with the keyboard backlight.

For detection and pairing to occur, KeyPad should be located within the coverage of the wireless network of the hub (at the same protected object). A request for connection to the hub is transmitted for a short time at the moment of switching on the device. If KeyPad failed to connect to the hub, switch it off for 5 seconds and retry. The connected device will appear in the app device list. Update of the device statuses in the list depends on the detector ping interval in the hub settings (the default value is 36 seconds).

There are no pre-set passwords for KeyPad. Before using a KeyPad, set all necessary passwords: common, personal, and duress code if you are forced to disarm the system.

Selecting the Location

The location of the device depends on its remoteness from the hub, and obstacles hindering the radio signal transmission: walls, floors, large objects inside the room.

The device developed only for indoor use.

Do not install KeyPad:

1. Near the radio transmission equipment, including that operates in 2G/3G/4G mobile networks, Wi-Fi routers, transceivers, radio stations, as well as an Ajax hub (it uses a GSM network).
2. Close to electrical wiring.
3. Close to metal objects and mirrors that can cause radio signal attenuation or shading.
4. Outside the premises (outdoors).
5. Inside premises with the temperature and humidity beyond the range of permissible limits.
6. Closer than 1 m to the hub.

Check the Jeweller signal strength at the installation location

During testing, the signal level is displayed in the app and on the keyboard with security mode indicators O (Armed mode), ○ (Disarmed mode), ☉ (Night mode) and malfunction indicator X.

If the signal level is low (one bar), we cannot guarantee the stable operation of the device. Take all possible measures to improve the quality of the signal. At least, move the device: even a 20 cm shift can significantly improve the quality of signal reception.

If the device has low or unstable signal strength even after moving, use a ReX radio signal range extender. KeyPad is designed for operation when fixed to the vertical surface. When using KeyPad in hands, we cannot guarantee successful operation of the sensor keyboard.

States

1. Devices
2. KeyPad

Parameter	Value
Temperature	Temperature of the device. Measured on the processor and changes gradually
Jeweller Signal Strength	Signal strength between the hub and KeyPad
Battery Charge	<p>Battery level of the device. Two states available:</p> <p>OK</p> <p>Battery discharged</p> <p>How battery charge is displayed in Ajax apps</p>
Lid	The tamper mode of the device, which reacts to the detachment of or damage to the body
Connection	Connection status between the hub and the KeyPad
Routed Through ReX	Displays the status of using the ReX range extender
Temporary Deactivation	Shows the status of the device: active, completely disabled by the user, or only notifications about triggering of the device tamper button are disabled
Firmware	Detector firmware version
Device ID	Device identifier

Settings

1. Devices
2. KeyPad
3. Settings

Setting	Value
First field	Device name, can be edited
Room	Selecting the virtual room to which the device is assigned
Arming/Disarming Permissions	Selecting the security group to which KeyPad is assigned
Access Settings	<p>Selecting the way of verification for arming/disarming</p> <p>Keypad code only</p> <p>User passcode only</p> <p>Keypad and user passcode</p>
Passcode	Setting a passcode for arming/disarming
Duress Code	Setting a duress code for silent alarm
Function button	<p>Selection of the button function *</p> <p>Off — the Function button is disabled and does not execute any commands when pressed.</p> <p>Send Alarm — by pressing the Function button, the system sends an alarm to the monitoring station of the security company and to all users.</p> <p>Mute Fire Alarm — when pressed, mutes the fire alarm of FireProtect/FireProtect Plus detectors.</p> <p>Learn more</p>
Arming without Password	If active, the system can be armed by pressing Arm button without passcode
Auto-lock After Wrong Password Attempts	If active, the keyboard is locked for the pre-set time after entering incorrect passcode three times in a row (during 30 min). During this time, the system cannot be disarmed via Key Pad.


Auto-lock time (min)	Lock period after wrong passcode attempts
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Brightness Brightness of the keyboard backlight

Volume	Volume of the beeper
Jeweller Signal Strength Test	Switches the device to the signal strength test mode
Attenuation Test	Switches the KeyPad to the signal fade test mode (available in devices with firmware version 3.50 and later)
Temporary Deactivation	<p>Allows the user to disconnect the device without removing it from the system.</p> <p>Two options are available:</p> <p>Entirely — the device will not execute system commands or participate in automation scenarios, and the system will ignore device alarms and other notifications</p> <p>Lid only — the system will ignore only notifications about the triggering of the device tamper button</p> <p>Learn more about temporary deactivation of devices</p>
User Guide	Opens the KeyPad User Manual
Unpair Device	Disconnects the device from the hub and deletes its settings

KeyPad allows to set both general and personal pass-codes for each user.

To install a personal pass-code:

1. Go to profile settings (Hub >Settings  > Users> Your profile settings)
2. Click Access Code Settings (in this menu you can also see the user identifier)
3. Set the User Code and Duress Code

Each user sets a personal passcode individually!

Security management by passwords


You can control the security of the entire facility or separate groups using common or personal passwords

(configured in the app).




If a personal password is used, the name of the user who armed/disarmed the system is displayed in notifications and in the hub event feed. If a common password is used, the name of the user who changed the security mode is not displayed.


Security management of the entire facility using a common password

Enter the common password and press the arming  / disarming  / Night mode activation .

For example: 1234 → 

Group security management with a common password

Enter the common password, press the *, enter the group ID and press the arming  / disarming  / Night mode activation .

For example: 1234 → * → 02 → 

What is Group ID?

If a group is assigned to the KeyPad (Arming / Disarming permission field in the keypad settings), you do not need to enter the group ID. To manage the arming mode of this group, entering a common or personal password is sufficient.

Please note that if a group is assigned to the KeyPad, you will not be able to manage Night mode using a common password.


In this case, Night mode can only be managed using a personal password (if the user has the appropriate rights).

Rights in the Ajax security system

Security management of the entire facility using a personal password




Enter user ID, press *, enter personal password, and press the arming  / disarming  / Night mode activation .


.

For example: 02 → * 1234 → 

What is User ID?

Group security management using a personal password

Enter user ID, press *, enter personal password, press *, enter group ID, and press the arming   / disarming / Night mode activation .

For example: 02 → * → 1234 → * → 05 → 

What is Group ID?

What is User ID?


If a group is assigned to the KeyPad (Arming / Disarming permission field in the keypad settings), you do not need to enter the group ID. To manage the arming mode of this group, entering a personal password is sufficient.

Using a duress password


A duress password allows you to raise a silent alarm and imitate alarm deactivation. A silent alarm means that the Ajax app and sirens will not shout and expose you. But a security company and other users will be alerted instantly. You can use both personal and common duress password.

What is a duress password and how do you use it?

Scenarios and sirens react to disarming under duress in the same way as to normal disarming.
To use a common duress password:

Enter the common duress password and press the disarming key .
For example: 4321 → 

To use a personal duress password:

Enter user ID, press *, then enter personal duress password and press the disarming key .
For example: 02 → * → 4422 → 

How the fire alarm muting function works

Using the Key Pad, you can mute the fire alarm by pressing the Function button (if the corresponding setting is enabled). The reaction of the system to pressing a button depends on the settings and the state of the system:

- Interconnected FireProtect Alarms are disabled – pressing the Function button mutes the sirens of triggered FireProtect/FireProtect Plus detectors.
- Interconnected FireProtect Alarms have already propagated — by the first press of the Function button, all sirens of the fire detectors are muted, except for those that registered the alarm. Pressing the button again mutes the remaining detectors.
- The interconnected alarms delay time lasts — by pressing the Function button, the siren of the triggered FireProtect/FireProtect Plus detector is muted.

[Learn more about interconnected alarms of fire detectors](#)

Functionality Testing

The Ajax security system allows conducting tests for checking the functionality of connected devices. The tests do not start straight away but within a period of 36 seconds when using the standard settings. The test time start depends on the settings of the detector scanning period (the paragraph on “Jeweller” settings in hub settings).

Jeweller Signal Strength Test
Attenuation Test

Installation



Before installing the detector, make sure that you have selected the optimal location and it is in compliance with the guidelines contained in this manual!



KeyPad should be attached to the vertical surface.

1. Attach the SmartBracket panel to the surface using bundled screws, using at least two fixing points (one of them — above the tamper). After selecting other attachment hardware, make sure that they do not damage or deform the panel.



The double-sided adhesive tape may be only used for temporary attachment of KeyPad. The tape will run dry in course of time, which may result in the falling of the KeyPad and damage of the device.

2. Put KeyPad on the attachment panel and tighten the mounting screw on the body underside.

As soon as the KeyPad is fixed in SmartBracket, it will blink with the LED X (Fault) — this will be a signal that the tamper has been actuated.

If the malfunction indicator X did not blink after installation in SmartBracket, check the status of the tamper in the Ajax app and then check the fixing tightness of the panel.

If the KeyPad is torn off from the surface or removed from the attachment panel, you will receive the notification.

KeyPad Maintenance and Battery Replacement

Check the KeyPad operating capability on a regular basis.

The battery installed in the KeyPad ensures up to 2 years of autonomous operation (with the inquiry frequency by the hub of 3 minutes). If the KeyPad battery is low, the security system will send the relevant notices, and the malfunction indicator will smoothly lights up and goes out after each successful passcode entry.

[How long Ajax devices operate on batteries, and what affects this](#)

[Battery Replacement](#)

Complete Set

1. KeyPad
2. SmartBracket mounting panel
3. Batteries AAA (pre-installed) 4 pcs
4. Installation kit
5. Quick Start Guide

Technical Specifications

Anti-tamper switch	Capacitive
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Anti-tamper switch	Yes
Protection against passcode guessing	Yes
Frequency band	868.0 – 868.6 MHz or 868.7 – 869.2 MHz depending on the region of sale
Compatibility	hubs range Operates only with all Ajax , and extenders
Maximum RF output power	Up to 20 mW

Modulation of the radio signal	GFSK
Radio signal range	Up to 1,700 m (if there are no obstacles)
Power supply	4 × AAA batteries
Power supply voltage	3 V (batteries are installed in pairs)
Battery life	Up to 2 years
Installation method	Indoors
Operating temperature range	From -10°C to +40°C
Operating humidity	Up to 75%
Overall dimensions	150 × 103 × 14 mm
Weight	197 g
Certification	Security Grade 2, Environmental Class II in conformity with the requirements of EN 50131-1, EN 50131-3, EN 50131-5-3


Warranty

Warranty for the “AJAX SYSTEMS MANUFACTURING” LIMITED LIABILITY COMPANY products is valid for 2 years after the purchase and does not apply to the pre-installed 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 User Agreement Technical support: support@ajax.systems

Documents / Resources

 <p>KeyPad User Manual</p> <p>KeyPad is a wireless alarm touch keypad designed for connecting to the security system. It is designed to be used with the Ajax Alarm system and provides the system with a secure connection. It is designed to be used with the Ajax Alarm system and provides the system with a secure connection. It is designed to be used with the Ajax Alarm system and provides the system with a secure connection.</p> <p>Connecting to the Ajax Alarm system is a secure process. It is designed to be used with the Ajax Alarm system and provides the system with a secure connection. It is designed to be used with the Ajax Alarm system and provides the system with a secure connection. It is designed to be used with the Ajax Alarm system and provides the system with a secure connection.</p> <p>For more information, please visit the Ajax Systems website at www.ajax-systems.com.</p>	<p>ajax KeyPad [pdf] User Manual</p> <p>KeyPad, 353424227</p>
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References

- [End user agreement - Ajax Systems](#)
- [Jeweller radio technology | Ajax Systems](#)
- [Current product lines of the Ajax security system](#)
- [Current product lines of the Ajax security system](#)
- [KeyPad - Wireless touch keyboard | Ajax Systems](#)
- [ocBridge Plus — Module for Ajax devices integration with wired systems](#)
- [ReX — Intelligent radio signal range extender | Ajax Systems](#)
- [uartBridge — Module for Ajax devices integration with third-party wireless alarms systems](#)
- [Software | Ajax Systems](#)
- [Warranty - Ajax Systems](#)
- [User account types and rights | Ajax Systems Support](#)
- [How battery charge is displayed in Ajax apps | Ajax Systems Support](#)
- [What is the identification \(ID\) of the group? | Ajax Systems Support](#)
- [What is duress code, and how to use it | Ajax Systems Support](#)
- [What is the user identifier? | Ajax Systems Support](#)
- [How long Ajax devices operate on batteries, and what affects this | Ajax Systems Support](#)
- [How to temporarily deactivate a device without removing it from the system | Ajax Systems Support](#)
- [How to change batteries in the KeyPad | Ajax Systems Support](#)
- [What is Attenuation Test | Ajax Systems Support](#)
- [What is Interconnected Fire Detectors Alarm and how does it work | Ajax Systems Support](#)
- [What is Jeweller Signal Strength Test | Ajax Systems Support](#)