KeyPad Plus

Wireless touch keypad supporting encrypted contactless cards and key fobs

Contactless control without reliability compromises

KeyPad Plus is a combination of design, advanced encryption technology, and elaborated user experience for the most straightforward and protected security management. Arm and disarm Ajax, activate Night Mode and manage specific groups with a Pass card or Tag key fob.

- Pass/Tag reader
- Security mode indicators
- Touch−sensitive keypad

KeyPad Plus is supported by Hub Plus, Hub 2 and Hub 2 Plus **control panels**

Top-tier data protection

To identify users quickly and securely, KeyPad Plus features the DESFire® technology. It is the best-in-class contactless solution to identify a user by card or key fob.

DESFire® is based on the ISO 14443 international standard and combines comprehensive 128-bit encryption and copy protection. This technology is also used in transportation systems of European capitals and access systems at NASA.

Outstanding autonomy

The all-new KeyPad Plus firmware gets the most out of the pre-installed batteries. Even with daily use of the contactless identification function, the keypad will work for 3.5 years without replacing batteries. And with the card and key fob reader disabled, the battery life reaches 4.5 years. KeyPad Plus will warn a monitoring station and users in advance about the need to replace the batteries.

Remote access control

Set up personal passcodes to know who and when disarmed the system: a username is displayed in the notification and in the event log.

Pass or Tag can also be assigned to a specific user with defined permissions to control security of specific groups or the entire site.

Ajax app allows you to manage access permissions in real time. You can limit, extend, or instantly block access.

- Personal passcodes
- Event log

- Instant blocking of access

Adding users. Fast and easy.

Ajax systems support up to **200 Tags or Passes.** When adding them, you do not need to create Ajax accounts for new users, you just need to name a device and define access permissions. This makes it easier to delegate access to the system control to temporary employees or incoming staff.

Security mode indication

Light and sound indication of KeyPad Plus allows controlling the security status without the Ajax app. The volume and brightness of the backlight is adjustable.

Silent alarm transmission to a monitoring station

If attackers force to disarm the system

Duress code allows you to simulate disarming via KeyPad Plus. The user is not disclosed by sirens, the app and the keypad indication, but the alarm signal is instantly transmitted to a central monitoring station[4].

Guaranteed alarm delivery

We have developed the Jeweller radio protocol to ensure the uninterrupted operation of all system devices. The radio protocol uses time frames to synchronize communication of connected devices, authentication to eliminate forgery, and encryption to protect against hacking.

- Two-way communication at a distance of up to 1,700 meters
- 5 ReX radio signal range extenders in a system
- Adjustable ping interval from 12 seconds

Smart security management console

Use scenarios to shift your daily routine to Ajax. When arming, the system turns off the lights, the water and electrical appliances, closes the roller shutters, all in one touch on KeyPad Plus.

Effortless installation

KeyPad Plus is connected and configured in Ajax apps. No need to disassemble the enclosure or install batteries. Adding to the system is done via simply scanning a QR code. An installation engineer only needs to test the device, add cards and set up access permissions.

Tech specs

Keypad type	Capacitive touch keypad
Installation	Indoor only
Compatibility	Hub Plus, Hub 2, Hub 2 Plus, ReX with OS Malevich 2.11 and higher
Personal passcodes	Yes
Passcode guessing protection	Yes
Duress code	Yes
Contactless access	DESFire® EV1, EV2 ISO14443-A (13,56MHz)
Power supply	Batteries: 4 lithium AA (FR6) Voltage 1.5V Battery life: up to 4.5 years
Temperature sensor	Available
Jeweller radio technology	Communication range with central unit — up to 1,700 m Two-way communication between devices Operating frequencies — 868.0–868.6 MHz[5] Self-adjusting RF output power — up to 20 MW Block encryption with a dynamic key Ping period — 12–300 s
Anti-sabotage	Authentification Jamming detection Tamper notifications
Operating temperature range	From -10°C to +40°C

Operating humidity	Up to 75%
Dimensions	165 × 113 × 20 mm
Weight	267 g
Certification	EN 50131, complies with the requirements of the technical regulations for radio equipment
Warranty	24 months
Complete set	KeyPad Plus SmartBracket mounting panel 4 AA batteries (pre-installed) Installation kit User guide