



# KeyPad Plus

Wireless indoor touch-sensitive keyboard to control the Ajax security system with encrypted contactless cards and tags



Grade 2 EN50131



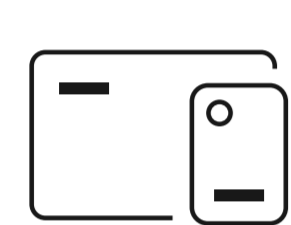
PD 6662:2017



DESFire®

The Ajax hub is required for operation. Find the list of compatible hubs on the official website.

<https://ajax.systems/support/devices/keypad-plus>



Contactless access



Remote access management



Antisabotage protection



Up to 4.5 years from battery

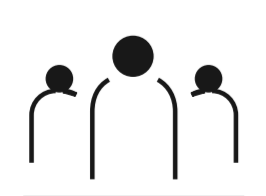
## Contactless access for users

With KeyPad Plus, it is no longer necessary to create an Ajax account for new users. Just provide a person with a contactless, copy-protected tag or card to grant them access to the whole security system or particular groups.

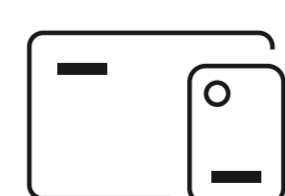


## Remote access management for owners

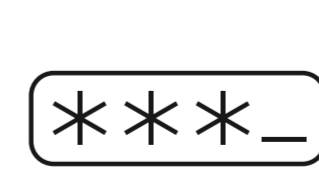
KeyPad Plus events are recorded in the system event feed. If an access device is lost, the owner can disable it instantly in the Ajax app, and the user can use a personal passcode instead. All user permissions can be changed remotely and in real-time.



Up to 200 users



Up to 200 cards or tags



Personal passcodes



Simplified security group management



## Secure user identification

KeyPad Plus uses DESFire® technology to quickly and securely identify users. It is a best-in-class contactless communication solution that allows identifying the user by card or tag.

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

## Outstanding energy efficiency

The all-new KeyPad Plus firmware gets the most out of the pre-installed battery. Even with the contactless identification function's daily use, the keypad will work for up to 3.5 years without battery replacement. And with the card and tag reader disabled, the battery life reaches 4.5 years. KeyPad Plus warns a monitoring station and users about the need to replace the battery.

### KeyPad

up to **2** years

### KeyPad Plus with reader enabled

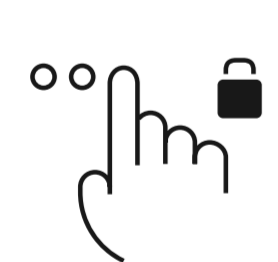
up to **3.5** years

### KeyPad Plus with reader disabled

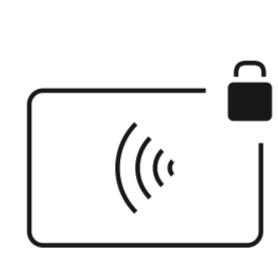
up to **4.5** years

## Advanced antisabotage

KeyPad Plus features protection against code guessing. After several attempts to guess the passcode or use an invalid card/tag, the keypad is locked. Users and a security company receive notifications about such attempts or when the keypad is removed from the mount/lost communication.



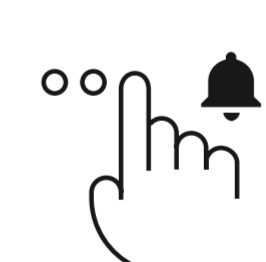
Protection against  
code guessing



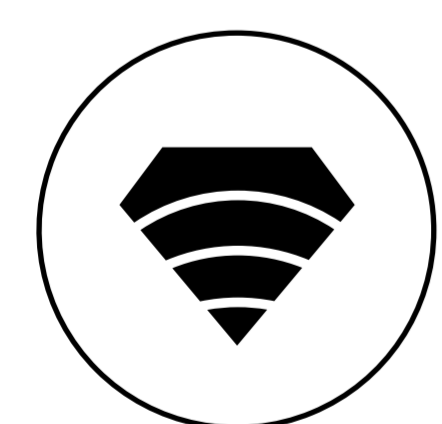
Protection against  
invalid access devices



Tampering alarm



Duress code



Jeweller

## Guaranteed commands delivery

We've developed the Jeweller radio protocol to ensure system communication. The radio protocol uses frames to synchronize device communications, authentication to prevent forgery, and encryption to protect against hacking.

Two-way communication  
at a distance of  
**1,700 meters**

**5 ReX**  
radio signal range  
extenders in the system

Adjustable ping from  
**12 seconds**

# Ajax Pass & Tag

the access devices for KeyPad Plus

Featuring an original DESFire® chip, Pass and Tag have the same functionality but different shape — pick the most convenient for you.

**One Tag or Pass can manage up to 13 hubs.**

**Access devices are sold separately in batches of 3/10/100**



## Tech Specs

Color	black/white	Installation	indoors
Radio communication range	up to 1,700 m	Power supply	4 × AA batteries, 1.5 V
Communication protocol	Jeweller Two-way encrypted communication	Battery life	up to 3.5 years (with reader enabled) up to 4.5 years (with reader disabled)
Frequency band	868.0–868.6 MHz (depends on the region of sale)	Operating temperature range	from -10°C to +40°C
Contactless access	DESFire® EV1, EV2 ISO14443-A (13.56MHz)	Operation humidity	up to 75%
Access device capacity	up to 200 card or tags (depending on the hub model)	Dimensions	165 × 113 × 20 mm
Compliance	Grade 2 EN 50131 PD 6662:2017	Weight	267 g
Environmental class	II – Indoor – General	Fixing	SmartBracket
Complete set	KeyPad Plus SmartBracket mounting panel 4 x AA batteries (pre-installed) Installation kit Quick start guide		