

Tech specs

BASELINE

KeyPad Outdoor Jeweller

Wireless keypad supporting authentication via Pass, Tag, smartphones, and codes. For outdoor and indoor use.



Device compatibility

Check

Communication

Jeweller communication technology

Proprietary wireless communication technology to transmit commands, alarms, and events.

Key features:

- Two-way communication.
- Advanced sabotage protection.
- Block encryption featuring a dynamic key.
- Instant notifications.
- Remote control and configuration in Ajax apps.

Learn more 

Frequency bands

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 sales region.

Maximum effective radiated power (ERP)

up to 20 mW

Automatic power control to reduce power consumption and radio interference.

Radio signal modulation

GFSK

Radio communication range

up to 1,700 m

Between the device and a hub (or a range extender) in an open space.

Calculate radio communication range at the facility 

Encrypted communication

All stored and transmitted data are protected by block encryption featuring a dynamic key.

Frequency hopping

To prevent radio interference and jamming.

Learn more 

Key features

Keypad functions

- switching security modes
- managing automation devices
- starting entry delays (bypass keypad)

Each of the above can be configured as either a **primary** or **secondary** keypad function in the device settings in Ajax apps. Only one primary and one secondary function can be active at a time. Switch between functions by long-pressing the **OK** button on the keypad.

Learn more 

Authentication methods

- access codes
- Tag key fobs
- Pass cards
- smartphone (via Bluetooth)

Access codes

- keypad code

1 per each KeyPad Outdoor Jeweller.

- user codes

1 per user. Up to 50 per each KeyPad Outdoor Jeweller. The total number depends on the hub model.

- unregistered user codes

1 per user not registered in an Ajax system. Up to 50 per each KeyPad Outdoor Jeweller. The total number depends on the hub model.

- duress codes

1 per user. Up to 50 per each KeyPad Outdoor Jeweller. The total number depends on the hub model.

Contactless access

DESFire® EV1, EV2, EV3

ISO 14443-A (13.56 MHz)

Contactless authentication via smartphone

A smartphone with an Ajax app installed and Bluetooth Low Energy (BLE) support can be used for authentication instead of Tag or Pass. BLE is a radio protocol with low power consumption. The keypad supports Android and iOS smartphones with BLE 4.2 and later.

Arming without entering a code

When enabled, this feature allows users to arm the facility without entering a code or presenting an access device.

Group security management

Users can change the security mode of groups they have access to directly from the keypad.

Learn more 

Authorization confirmation with a passcode

This feature activates two-factor authentication. When enabled, users must first present an access device (Pass, Tag, or smartphone) and then enter a passcode to confirm authorization.

Learn more 

Function button

Operates in one of the following modes:

- panic

Sends an alarm to the central monitoring station and users. Also activates the sirens connected to the system.

- mute fire alarm

Mutes alarms triggered by interconnected fire detectors.

Learn more ➤

- none

The button is disabled.

Automation device control

Allows users to control automation devices or run scenarios by keypad.

Starting entry delay

Activates an entry delay, enabling users to disarm the facility using the main keypad.

Indication of malfunctions and security mode

When enabled, the keypad uses LED indicators to show the current security mode, as well as detector malfunctions or loss of communication with the hub. A built-in buzzer notifies of alarms, opening doors, and entry/exit delays.

Recommendations

The device is designed for outdoor and indoor use.

Sabotage protection

Unauthorized access auto-lock

The keypad locks if an incorrect code is entered or unverified access devices are used more than 3 times in a row within 1 minute. The lock duration can be adjusted by a PRO or user with admin rights in an Ajax app.

Tamper alarm

Sends notifications about attempts to detach the keypad from the surface or remove it from the mounting panel.

Learn more 

Holding screw

Secures the device on SmartBracket.

Protection against spoofing

Ensures device authentication during communication with a hub.

Communication loss detection

after 36 seconds of no signal

Detection time depends on Jeweller or Jeweller/Fibra settings.

Main power supply

Battery

2 × CR123A

Pre-installed.

Type

type C

Calculated battery life

up to 3 years

Learn more 

Operating voltage range

2.0–3.3 V_{DC}

Nominal operating voltage

3 V_{DC}

Quiescent current consumption at nominal voltage

115 µA

Maximum current consumption at nominal voltage

125 mA

Full battery capacity

3,200 mAh

Low battery voltage

2.25 V_{min}

Low battery recovery voltage

2.75 V_{min}

End-of-life battery voltage

2.0 V_{min}

The device switches off.

End-of-life battery capacity

200 mAh

Manufacturer

Huiderui

Optional power supply

External supply operating range

10.5–14 V $\overline{=}$, up to 1 A

The batteries serve as a backup when an external power supply is connected.

Enclosure

Dimensions

170 × 45 × 31 mm

Weight

258 g

Operating temperature range

from -25 °C to +60 °C

Operating humidity

up to 80%

Protection class

IP66

IK08

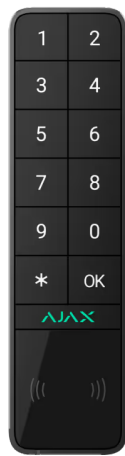


31 mm

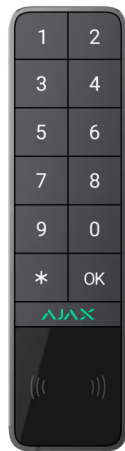
Color

Black

White



Graphite



Complete set

KeyPad Outdoor Jeweller

2 × CR123A battery (pre-installed)

SmartBracket mounting panel

Installation template

Installation kit

Quick start guide

Certification and compliance with standards



KeyPad Outdoor Jeweller

Additional information

Compliance with standards

Learn more >

User manual

Learn more >

Warranty

24 months

Learn more >

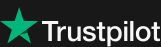
Subscribe

Subscribe to our emails about secure life. No spam.

Subscribe

Request extra help

- support@ajax.systems
- @AjaxSystemsSupport_Bot
- Send a request





Rating 4.7

4,000,000

people worldwide under Ajax protection

Suggest a feature



Products

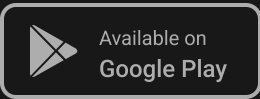
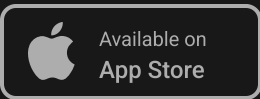
- Intrusion protection
- Video surveillance
- Fire and life safety
- Comfort and automation
- All products
- Services
- System integrations
- Ajax Ready products
- Fibra wired protocol
- Ajax radio protocols

Solutions

- Customer stories
- Solutions by facility type
- Commercial fire detection and alarm system
- Upgrades and retrofits
- Why Ajax

Software

- For users
- Ajax PRO: Tool for Engineers
- Ajax Desktop
- Ajax PRO Desktop
- Ajax Translator PRO
- Ajax Cloud Signaling
- Scenarios



Support

- Manuals and articles
- Compliance with standards

Tools

- Ajax device compatibility

How it works

Video storage calculator

Video device calculator

Battery life calculator

Radio communication range calculator

Switches and outlets configurator

Fibra power supply calculator

All web tools

Connecting to CMS

Intrusion alarm monitoring

Video monitoring and visual alarm verification

Audio alarm verification

Company

Blog

About us

Press page

Events

Career

Ajax Next

Students at CES 2026

Reviews and feedback

For partners

For partners

Ajax Academy

Partner Portal

 România

Privacy policy

Report a vulnerability

GDPR White Paper

NDA Statement

Cookie policy

Anti-Spam Policy

End user agreement

Warranty

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