Tech specs

BASELINE

KeyPad TouchScreen Jeweller

Wireless keypad with a touch screen that supports authentication with smartphones, Pass, Tag, and codes

Compatibility

Control panels

Hub 2 (2G) ›

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 configuration in the 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 noise interference.

Radio signal modulation

GFSK

Radio signal range

up to 1,700 m

Between keypad and hub (or range extender) in an open space.

Calculate the radio signal range at the facility ›

Encrypted communication

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

Frequency hopping

Radio communication uses frequency hopping to prevent interception and jamming.

Learn more ›

Wings communication technology

Proprietary wireless communication technology for transmitting the list of the groups, rooms and detectors to form the list of malfunctions.

Key features:

- Two-way communication.
- Block encryption featuring a dynamic key.
- Advanced sabotage protection.
- Reloading the data packages in case of transmission errors.

Learn more ›

Frequency bands

868.0–868.6 MHz

Radio signal range

up to 1,700 m

Between keypad and hub (or range extender) in an open space.

Calculate the radio signal range at the facility ›

Encrypted communication

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

Frequency hopping

Radio communication uses frequency hopping to prevent interception and jamming.

Learn more ›

Display

Diagonal

5"

Matrix type

IPS

Resolution

480 × 854 px

Sensor

capacitive

Brightness settings

- automatic
- manual

If **Auto Adjust** is enabled, the display brightness depends on the light conditions. This saves battery power.
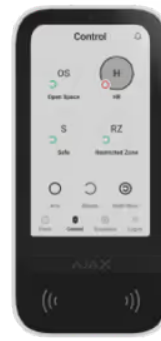
Backlight lifetime

30,000 hours

Guaranteed backlight lifetime when the **Always Active Display** toggle is enabled. It can be adjusted in Ajax apps and activates only when external power is connected.

User interface

Dark   Light

Key features

Panic buttons

- panic
- fire
- auxiliary help

Sending an alarm or calling for help from the separate keypad tab.

Control

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

Contactless access

DESFire® EV1, EV2
ISO14443-A (13.56 MHz)

Access codes

up to 200 personal codes

One code per each user. The number of personal access codes [depends on the hub model](#).

1 keypad code

Per each KeyPad TouchScreen.

Duress codes

up to 200 personal codes

One code per each user. The number of personal duress codes [depends on the hub model](#).

1 keypad code

Per each KeyPad TouchScreen.

Codes for unregistered people

up to 99 personal codes

For people who are not registered in the Ajax system. The number of such codes [depends on the hub model](#).

Arming without entering a code

The enabled feature allows the user to arm the system without entering a code or presenting the access device.

Group management

Changing the security mode of the groups to which the user has access from the keypad's display.

Learn more ›

Scenarios management

A separate keypad tab contains up to 6 buttons, and each one can control one automation device or a group of devices.

Learn more ›

Indication of malfunctions and security mode

- display
- logo
- sound indication

If enabled, the logo lights up red continuously or when the system or group is armed. KeyPad TouchScreen indication is shown on the display only when it is active. Built-in buzzer notifies about alarms, door openings and entry/exit delays.

Fire alarm muting

Turns off the fire detectors alarm, including the interconnected alarm.

Learn more ›

User pre-authorization

When the feature is enabled, viewing the current system status and control screen is unavailable. For access, the user must pre-authorize: enter a code or present a personal access device to the keypad.

Contactless authorization with a smartphone

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

Auto screen wakeup

The keypad wakes up automatically when approaching it. The approaching distance can be adjusted in the app.

Recommendations

The device is designed for indoor use only

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 time is adjusted by PRO or user with admin rights in the Ajax app.

Tamper alarm

Notifications on attempts to detach the keypad from the surface or remove it from the mounting panel.

Learn more ›

Holding screw

To secure the keypad on SmartBracket.

Protection against spoofing

device authentication

Communication loss detection

after 36 s

Detection time depends on the Jeweller or Jeweller/Fibra settings.

Learn more ›

Power supply

Batteries

6 × AA

Pre-installed.

Calculated battery life

up to 1.5 years

With default settings and up to 4 interactions with a keypad per day.

Keypad's operating voltage range

10.5–14 V⎓, up to 0.4 A

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

Keypad's nominal operating voltage

12 V⎓

Enclosure

Dimensions

172 × 82 × 26 mm

Weight

327 g

Operating temperature range

from -10°C to +40°C

Operating humidity

up to 75%

172 mm

82 mm

26 mm

Colours

Black

White

Complete set

KeyPad TouchScreen

SmartBracket mounting panel

6 AA batteries (pre-installed)

Installation kit

Quick start guide

Additional information

Compliance with standards

Learn more ›

User manual

Learn more ›

Warranty

24 months

Learn more ›

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⌁ @AjaxSystemsSupport_Bot

★ Trustpilot
★★★★★
Rating 4.6

2,500,000
people worldwide under Ajax protection

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Products

Superior

Fibra

Intrusion protection

Video surveillance

Fire detection

Water leak prevention

Comfort & Productivity

Solutions

Why Ajax

How it works

Scenarios

Customer stories

Ajax Ready products

Reviews and feedback

Software

For users

PRO Desktop

Ajax Translator

Scenarios

 Available on
App Store

 Available on
Google Play

Support

Manuals and articles

Compliance with standards

Tools

Battery life calculator

Radio communication range calculator

Fibra power supply calculator

Light switches configurator

Ajax devices compatibility

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For partners

Bussiness with Ajax

Events

Brandbook

Ajax SIM

Enterprise API

CMS integration

România   Privacy policy   GDPR White Paper   NDAA Statement   Cookie policy   Anti-Spam Policy   End user agreement

Warranty