

KeyPad Outdoor Jeweller

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

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. 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 up to 5,550 ft Between the device and a hub (or a range extender) in an open space. Encrypted communication All stored and transmitted data are protected by block encryption featuring a dynamic key. Frequency hopping To prevent radio interference and jamming.
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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.

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.

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.

- 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. 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 Operating voltage range 2. 0–3. 3 V_{nom} Nominal operating voltage 3 V_{nom} 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_{nom} Low battery recovery voltage 2.75 V_{nom} End-of-life battery voltage 2.0 V_{nom} The device switches off. End-of-life battery capacity 200 mAh Manufacturer Huidrui
Optional power supply	External supply operating range 10.5–14 V_{nom}, up to 1 A The batteries serve as a backup when an external power supply is connected.

Enclosure	Dimensions 170 × 45 × 31 mm 6.69" × 1.77" × 1.22"
	Weight 258 g 9.1 oz
	Operating temperature range from −25 °C to +60 °C from −13 °F to 140 °F
	Operating humidity up to 80%
	Protection class IP66 IK08
Color	Black White
	Graphite
Complete set	KeyPad Outdoor Jeweller 2 × CR123A battery (pre-installed) SmartBracket mounting panel Installation template Installation kit Quick start guide
Warranty	24 months