

KeyPad TouchScreen Jeweller

Wireless keypad with touch screen to control an Ajax system

Contactless Ajax system control

KeyPad TouchScreen combines security and smart home device management. With an intuitive interface, multiple language options, and smartphone-like familiarity, it's easy to use. The large display, DESFire technology, and code options ensure a secure and efficient experience.

<p>Touch IPS display</p> <p>with a diagonal of 5 inches</p>	<p>Black and white themes</p>	
<p>Operation with secured cards and key fobs</p> <p>Pass and Tag access devices</p>	<p>Easy security group management</p>	
<p>Sound notifications</p> <p>about alarms, delays and doors opening</p>	<p>Two power options</p>	
	<p>Up to 1.5 years of operation on batteries</p> <p>wireless</p>	<p>External power supply 12 V- + batteries</p> <p>batteries as a backup power source</p>
<p>Configurable panic buttons</p> <p>panic fire auxiliary</p>	<p>Remote control and configuration</p>	
<p>Tamper alarm</p>	<p>Two colors</p>	
<p>Control via smartphone</p> <p>due to BLE support</p>	<p>32 interface languages</p>	
<p>Personal access codes and duress codes</p>	<p>Automation control</p>	
<p>Communication range with an Ajax hub</p> <p>Up to 1,700 m</p>	<p>Wireless Jeweller ra Wings communication</p> <p>Two-way radio communication TDMA Encryption Protection against spoofing Frequency hopping</p>	

DFU support Over-the-air software updates	Informative app notifications Office Armed by Andriy using KeyPad TouchScreen Workplace Night mode activated by Petro
Compliance Grade 2 (EN 50131) PD 6662:2017	

Compatible hubs and range extenders
<ul style="list-style-type: none"> ● Hub 2 (2G) ● Hub 2 (4G) ● Hub 2 Plus ● Hub Hybrid (2G) ● Hub Hybrid (4G)

One device, three missions

Security management	Smart home control	Events notifications
Easily manage security for multiple groups. Users can view what's armed and make changes with just one touch whether it's securing one group, multiple groups, activating night mode, or arming everywhere. It's all simple and straightforward.	The keypad features a separate control tab for automation devices, with the capacity for up to 6 buttons. Groups simplify the process of controlling multiple switches, relays, or sockets. For instance, users can assign all LightSwitches to one button and easily turn off all the lights in the entire house when they go to bed.	Stay always informed with the built-in buzzer, receiving notifications about alarms, door openings, and entry/exit delays. Effortlessly adjust the sound volume on a smartphone or PC. Remain one step ahead with the keypad's malfunction notifications during arming.

Designed for any location

Shop	Museum	Private house	Coworking space	Workplace or warehouse	Office	Car service	Educational institution
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Three authentication methods

There are three easy ways to control the keypad, giving users the flexibility to choose what suits them best. All events display in the feed, including user activity and authentication details.

Smartphone	Pass card and Tag key fob	Code
<p>Control the keypad via smartphone with an Ajax app. Only those approved by the admin have access rights.</p>	<p>When someone uses the Pass card or the Tag key fob, it's recorded in the event feed of the Ajax apps. The system admin can revoke or restrict the access rights of the contactless access device at any time.</p>	<p>KeyPad TouchScreen supports code types as follows:</p> <ul style="list-style-type: none"> • keypad code (one per keypad) • personal code (individual for each user) • code for an unregistered person
<p>BLE (Bluetooth Low Energy) is a low-energy radio protocol that makes it possible to use a smartphone instead of cards or key fobs. KeyPad TouchScreen supports Android and iOS smartphones with BLE 4.2 and above.</p> <p>Users can configure access control settings. Data transmission between the smartphone and KeyPad TouchScreen is encrypted. The system incorporates measures to prevent spoofing attacks, making it impossible for burglars to gain unauthorized access.</p>	<p>To identify users quickly and securely, KeyPad TouchScreen features the DESFire® technology. It is the best-in-class contactless solution to identify the user by card or key fob.</p> <p>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.</p> <p>From the user's perspective, contactless access works simply. To disarm the system, all you need is to present a card or a key fob to the keypad. But there is an impressive technology behind this simplicity. Pass cards and Tag key fobs are equipped with DESFire® chips. We compared them to the chips used in most access systems around the world.</p>	<p>The system prevents unauthorized individuals from guessing the access code. This helps enhance security and ensures that only authorized users can gain access.</p> <p>Users have the capability to change the access code remotely. At the same time, the access code used in the system is always hidden, meaning it is not visible to others when entered. This feature reduces the risk of keypad theft attempts.</p>

Contactless access devices

The Pass card and the Tag key fob are equipped with original DESFire® chips, and feature the same functionality but different enclosures. You can choose the form that is convenient for you. **One Tag or Pass can control 13 security systems.** Access devices are sold separately in batches of 3/10/100 pieces.

Access for unregistered users

With a simple assignment of a personal access code in the hub settings, office employees, cleaning company staff, or other individuals enter the area with convenience at its finest.

Full protection in case of emergency

For emergencies, the keypad provides a tab with panic buttons that can notify about three event types. If the user is forced to disarm the system, they can use a duress code. It simulates disarming and simultaneously sends an alarm to the security company.

- Tab with panic buttons that can notify about three event types: panic, fire, or auxiliary
- Duress code

Discover future-proof hardware

Screen	Large touch panel <i>For easy system control</i>
	Scratch-resistant glass <i>Guarantees keypad will always look impeccable</i>
Sensors	Light sensor <i>For automatic backlight adjustment – bright during the day, not blinding at night</i>
	Proximity sensor <i>For automatic keypad activation when a hand approaches</i>
Notifications	Buzzer <i>Impossible-to-ignore tones with different patterns to indicate an alarm, delay, or other event</i>

Antennas	Cards and key fobs reader <i>For authentication with Tag cards and Pass key fobs</i>
	BLE reader <i>For authentication with smartphone</i>
Installation	SmartBracket panel <i>To set the keypad with no need to disassemble the enclosure</i>
	Channel raceway <i>Provides a secure 12 V⁼⁼ cable fit</i>
Enclosure	Tamper button <i>Triggers when trying to tear off the keypad from the surface or remove it from the mount</i>
	Hole for fixing the keypad with the bundled screw <i>To mount a keypad securely</i>

Unique touch screen operation experience

High-resolution screen accommodates all necessary controls, ensuring a visually stunning and high-quality display. With automatic brightness adjustment and a sleek glass material, the product offers aesthetics and convenience.

- 5-inch screen with a resolution of 480 × 854 px
- Bright during the day, not blinding at night
- Screen protection against scrapes, scratches, etc.

Stable power under any conditions

Batteries

Wire-free installation ensures a quick setup process for seamless operation. With Ajax apps providing notifications for battery replacements, security will never be compromised.

- Up to 1.5 years of operation on pre-installed batteries
- Low battery warning
- Replaceable AAA batteries

External power supply + batteries

Ensure uninterrupted device operation by connecting to an external 12V= power source for extended autonomy. Pre-installed batteries serve as a reliable backup.

- Connection to a 12 V= power supply unit
- Pre-installed batteries as a backup power source

The 12 V= power supply unit is not included in the KeyPad TouchScreen complete set.

Unique wireless technologies

KeyPad TouchScreen uses Jeweller and Wings proprietary radio protocols for reliable communication.

Up to 1,700 meters of radio communication with a hub	Encrypted two-way radio communication	Notifications about jamming and connection loss
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Jeweller	Wings
Jeweller is responsible for the transmission of commands, events, and alarms via a hub or range extender. Jeweller uses polling to display the real-time device status and features encryption and authentication to prevent spoofing.	Wings serves as a backup communication channel. It is designed to transfer large data packets, primarily for individual settings such as interface languages and firmware updates.

Scaled and comprehensive

ReX 2 assures stable communication even through steel and concrete via Ethernet using the wire as the additional communication channel. Up to 5 range extenders can operate within one Ajax system to expand the network twice as big, covering underground parking, basements, and metal hangars.

- Up to 5 range extenders within one system
- Ethernet as an alternative communication channel

Business center with underground parking	Warehouses or industrial complex	Sectional metal hangar
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Remote access rights management

Change access rights and codes in real time through Ajax apps. Compromised codes can be remotely altered within minutes, eliminating the need to call an installer to the facility.

- Remote code change
- Remote user access rights change
- Remote cards, key fobs, and smartphones blocking

Complex sabotage protection

<p>Tamper alarm</p> <p>Users and a security company receive a notification when someone removes the keypad from the mount. Also, the keypad is fixed with a screw from the bottom.</p>	<p>Data encryption</p> <p>All data the system stores and transmits is protected by a block cipher with a dynamic key. Encryption makes it extremely difficult to reprogram the keypad, replace or steal the data.</p>
<p>Protection against spoofing</p> <p>The hub checks the device's unique parameters for authentication during each communication session. If any parameter fails the check, the hub ignores device commands.</p>	<p>Regular polling</p> <p>The device regularly exchanges data with the hub. The system controls each device state and reports if there is a malfunction or connection loss. Updating the statuses of devices depends on the Jeweller settings; the default value is 36 seconds. Regardless of polling period, tamper alarms and triggers are sent instantly.</p>
<p>Data-rich notifications</p> <p>The Ajax system instantly notifies about alarms and events with informative notifications: security companies and users know exactly which device triggered, when and where it happened.</p>	<p>Protection against code guessing and use of third-party devices</p> <p>KeyPad TouchScreen locks if an incorrect code is entered more than 3 times in a row within 1 minute. The keypad only responds to cards, key fobs, and smartphones authorized in the Ajax app, so controlling the system through a third-party access device is impossible.</p>

Intuitive setup and installation

It is easy to pair KeyPad TouchScreen with a hub: all you need is to scan the QR code. No enclosure disassembly or battery installation required. PRO Desktop is available for professional monitoring.

Connection	Installation	Setup	Monitoring
Pairing with the security system via QR code	SmartBracket panel – no need to disassemble the enclosure	Configuring and testing in mobile and desktop apps	Monitoring in apps for macOS and Windows apps