# KeyPad TouchScreen Jeweller

## Wireless keypad with touch screen and contactless authorization

| Compatibility | **Control panels**<br>Hub 2 (2G)<br>Hub 2 (4G)<br>Hub 2 Plus<br>Hub Hybrid (2G)<br>Hub Hybrid (4G)<br><br>**Range extenders**<br>ReX 2 |
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| Communication | **Jeweller communication technology**<br>Proprietary wireless communication technology to transmit commands, alarms, and events.<br><br>Key features:<br><br>&bull; Two-way communication.<br>&bull; Advanced sabotage protection.<br>&bull; Block encryption featuring a dynamic key.<br>&bull; Instant notifications.<br>&bull; Remote configuration in the Ajax apps.<br><br>**Frequency bands**<br>868.0–868.6 MHz<br><br>**Maximum effective radiated power (ERP)**<br>up to 20 mW<br>Automatic power control to reduce power consumption and noise interference.<br><br>**Radio signal modulation**<br>GFSK<br><br>**Radio signal range**<br>up to 1,700 m<br>up to 5,500 ft<br>Between keypad and hub (or range extender) in an open space.<br><br>**Encrypted communication**<br>All the data stored and transmitted are protected by block encryption with a dynamic key. |

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| | **Frequency hopping**<br>Radio communication uses frequency hopping to prevent interception and jamming.<br><br>**Wings communication technology**<br>Proprietary wireless communication technology for transmitting the list of the groups, rooms and detectors to form the list of malfunctions.<br><br>Key features:<br><br>● Two-way communication.<br>● Block encryption featuring a dynamic key.<br>● Advanced sabotage protection.<br>● Reloading the data packages in case of transmission errors.<br><br>**Frequency bands**<br>868.0–868.6 MHz<br><br>**Radio signal range**<br>up to 1,700 m<br>up to 5,600 ft<br>Between keypad and hub (or range extender) in an open space.<br><br>**Encrypted communication**<br>All stored and transmitted data are protected by block encryption with a dynamic key.<br><br>**Frequency hopping**<br>Radio communication uses frequency hopping to prevent interception and jamming. |
| Display | **Diagonal**<br>5"<br><br>**Matrix type**<br>IPS<br><br>**Resolution**<br>480 × 854 px<br><br>**Sensor**<br>capacitive<br><br>**Brightness settings**<br><br>● automatic<br>● manual |

| | If **Auto Adjust** is enabled, the display brightness depends on the light conditions. This saves battery power. |
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| | **Backlight lifetime** <br> 30,000 hours <br> 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. <br><br> **User interface** <br><br> ● dark <br> ● light |
| Key features | **Panic buttons** <br><br> ● panic <br> ● fire <br> ● auxiliary help <br><br> Sending an alarm or calling for help from the separate keypad tab. <br><br> **Control** <br><br> ● codes <br> ● Tag key fobs <br> ● Pass cards <br> ● smartphone (Bluetooth) <br><br> **Contactless access** <br> DESFire® EV1, EV2 <br> ISO14443-A (13.56 MHz) <br><br> **Access codes** <br> up to 200 personal codes <br> One code per each user. The number of personal access codes depends on the hub model. <br><br> 1 keypad code <br> Per each KeyPad TouchScreen. <br><br> **Duress codes** <br> up to 200 personal codes <br> One code per each user. The number of personal duress codes depends on the hub model. <br><br> 1 keypad code <br> Per each KeyPad TouchScreen. |

|  | **Codes for unregistered people**<br>up to 99 personal codes<br>For people who are not registered in the Ajax system. The number of such codes depends on the hub model.<br><br>**Arming without entering a code**<br>The enabled feature allows the user to arm the system without entering a code or presenting the access device.<br><br>**Group management**<br>Changing the security mode of the groups to which the user has access from the keypad's display.<br><br>**Scenarios management**<br>A separate keypad tab contains up to 6 buttons, and each one can control one automation device or a group of devices.<br><br>**Indication of malfunctions and security mode**<br><br>• display<br>• logo<br>• sound indication<br><br>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.<br><br>**Fire alarm muting**<br>Turns off the fire detectors alarm, including the interconnected alarm.<br><br>**User pre-authorization**<br>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.<br><br>**Contactless authorization with a smartphone**<br>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. |

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| | **Auto screen wakeup**<br>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**<br>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.<br><br>**Tamper alarm**<br>Notifications on attempts to detach the keypad from the surface or remove it from the mounting panel.<br><br>**Holding screw**<br>To secure the keypad on SmartBracket.<br><br>**Protection against spoofing**<br>device authentication<br><br>**Communication loss detection**<br>after 36 s<br>Detection time depends on the Jeweller or Jeweller/Fibra settings. |
| Power supply | **Batteries**<br>6 × AA<br>Pre-installed.<br><br>**Calculated battery life**<br>up to 1.5 years<br>With default settings and up to 4 interactions with a keypad per day.<br><br>**Keypad's operating voltage range**<br>10.5–14 V⎓, up to 0.4 A<br>The batteries serve as a backup when the external power supply is connected.<br><br>**Keypad's nominal operating voltage**<br>12 V⎓ |
| Enclosure | **Dimensions**<br>172 × 82 × 26 mm<br>6.77" × 3.23" × 1.02"<br><br>**Weight** |

|  | 327 g<br>11.54 oz<br><br>**Operating temperature range**<br>from −10°C to +40°C<br>from 14°F to 104°F<br><br>**Operating humidity**<br>up to 75% |
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| Colours | **Black**<br>**White** |
| Complete set | KeyPad TouchScreen<br>SmartBracket mounting panel<br>6 AA batteries (pre-installed)<br>Installation kit<br>Quick start guide |
| Warranty | 24 months |