

JA-16J One-way four-button keyfob

The JA-16J is a component of the JA-10 system. It uses one way communication. It is designed to remotely control a security system, various appliances (using PG programmable outputs PG) or to trigger panic alarms. The remote is equipped with optical and acoustic indication. It checks its battery status and indicates when the battery is nearly discharged.

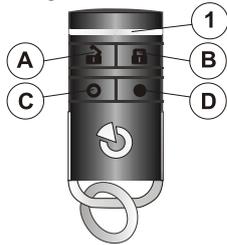


Figure: 1 – LED indication;
A, B, C, D – buttons, see their functions according to table 1.

Enrolling the remote control to a control panel

There must be a JA-111R radio module installed in the control panel for the ability to work with a control panel. The remote can be enrolled to an arbitrary number of JA-10 systems and one pair of buttons can control multiple sections in the system (common control). It occupies one position in the system.

1. Control panel has to be in service mode.
2. Basic procedure:
 - a. Go to the **N-Link** software, select the required position in the **Devices** tab and launch **enrollment** mode.
 - b. For the transmission of an enrollment signal press and hold buttons (A+B) simultaneously for at least 3 s (within this time the red LED flashes rapidly).
 - c. After 3 s the enrollment signal is sent and confirmed by one long LED flash. Release both buttons and close enrollment mode.



To set the keyfob to comply with security grade 2 or other requirements use the N-Link SW, open Parameters tab and select corresponding option from “System Profiles”(See the JA-10 control panel installation manual).

Notes:

- Enrolling the remote control to the system is possible by entering the production code via N-Link software. The production code is on the sticker with a bar code glued onto the battery holder inside the remote. All digits in the production code are required (1400-00-0000-0001).
- If you want to remove the remote control from the system (for instance when someone has lost it), erase it from the particular address of the control panel.

Setting the properties

Perform settings using **N-Link** software – **Devices** tab. Click on the JA-16J's **Internal settings**. Then a window appears automatically where you can set the following parameters:

Functions of the buttons: set a particular function for the pair of buttons A-B or C-D (setting/unsetting typically, ON/OFF switching of some appliance, etc.) or a function for each single button A, B, C, D (gate opening, garage door opening, etc.) and a double press of the A+B or C+D buttons, which can trigger silent panic. For an option overview see table 1.

Reaction for single buttons 🔒 / 🔓 / ○ / ● (A/B/C/D)	Reaction for pressing simultaneously 🔒 + 🔓 / ○ + ● (A+B/C+D)
<ul style="list-style-type: none"> – None (button not used) – Change PG state – Silent panic *) – Audible panic *) – Health troubles 	<ul style="list-style-type: none"> – Silent panic

Reaction for pair of buttons

🔒 - 🔓 / ○ - ● (A-B/C-D)

- Unset / Set
- Unset / Partially set
- Unset / Partially set / Set
- Unset/Set with confirmation
- Unset/Set partially with confirmation
- Unset/Set partially/Set with confirmation
- PG OFF / PG ON

Table: 1. Button function options overview

For each function selected for a remote control button it is necessary to select the appropriate PG or sections to be controlled or from which reports should be sent (panic, etc.). For the common control of multiple sections it is **not recommended** to operate a common section, but to select the desired section in the remote control internal settings.

Notes:

*) The reactions of the buttons which are not supported when the system is configured to comply with security grade 2.

- The option “Do not set with active zone“, doesn't allow the system to be set using a remote control (keyfob) when any zone with an **Instant** reaction is active. To set the system all zones / detectors have to be in standby

Pressing both triggers a silent panic: According to the settings control panel reacts to double pressing of those buttons by triggering silent panic alarm from the section where the keyfob has been enrolled. When the keyfob is locked down its necessary to perform doubles press 2x per 1 sec. Confirmed by flash of red LED on the keyfob.

Assign to user: Takes over user's access privileges for the sections and time limited access according to the specific user.

Locking the keyfob

The remote control buttons can be locked (blocked) against accidental pressing. Locking is disabled by default, pressing any button triggers its function immediately. If the buttons are locked, a control panel command is sent when a button is pressed 2x quickly (2x per 1 s) it is also valid for the panic function.

The **lock can be activated** by pressing and holding the pair of buttons (A+B) at the same time. After pressing both buttons the red LED (1) flashes 1x and subsequently after 3 s the red LED starts flashing quickly, during LED flashing release button B and then press it again. Activation of the lock function is performed and confirmed by double flashes of the red LED and a double beep. After this confirmation release all buttons.

The **lock is deactivated** by repeating the procedure above. Deactivation of locking is confirmed by one flash of the red LED and one beep.

Caution: When a reaction for pressing buttons (A+B) simultaneously is set (for example a panic alarm or garage door control), it is necessary to mind that the action is performed first.

Acoustic indication

Acoustic indication can be completely disabled. The default is enabled. When any button is pressed it is followed by a short acoustic signal according to the table 2.

The **acoustic indication** can be disabled by simultaneous pressing and holding the pair of buttons (A+B) until the red LED (1) starts flashing briefly for the second time, usually in 6 s. When the red LED (1) flashes a second time release the button (B) and press it again. The acoustic indication is then disabled and confirmed by flashes of the red LED and a one beep. After this confirmation release all buttons.

The **acoustic indication** can be enabled by repeating the procedure above. Activation is confirmed by a double flash of the red LED and a double beep.

Caution: When a reaction for pressing buttons (A+B) simultaneously is set (for example a panic alarm or garage door control), it is necessary to mind that the action is performed first.



JA-16J One-way four-button keyfob

LED indication table

Action	Indication
Activation (pressing) the button	0.5 s flash of red LED 1x short acoustic signal
Send enrollment signal	1 s flash of red LED
Deactivation (turn off) keyfob lock or deactivation of acoustic indication	0.5 s flash of red LED 1x short acoustic signal
Activation (turn on) keyfob lock or activation of acoustic indication	2x 0.5 s flash of red LED 2x short acoustic signals
Low battery	Short flash of red LED 3x short acoustic signals

Table 2. Remote control indication

Battery replacement

Low battery indication is signalled on the remote control after any button is pressed. The action assigned to the button is done and the red LED flashes along with 3 quick beeps. Low battery information is also sent to the control panel. The remote still works as usual but the RF range goes slowly down. Low battery indication is cancelled when a new battery is inserted.

To change the battery, unscrew the 2 screws from the back plastic; remove the cover with the metal strut from the housing. Then press any button a few times to discharge the rest of the energy from the capacitors and insert a new battery.

Changing the batteries DOES NOT RESET settings of the keyfob lock or acoustic indication.

Don't throw the used battery into the trash but take it to a suitable recycling station.

Technical specifications

Power - lithium battery	type CR 2032 (3.0 V/0.2 Ah) (Power supply C class according to EN 50131-6)
Current consumption:	- Nominal consumption 1,1 µA - Maximal consumption 33 mA
Low battery voltage detection	≤2.2 V
Typical battery lifetime	approx. 5 years (10 activations/day)
Communication band	868.1 MHz, JA-10 protocol
RF range	approx 100 m (line of sight)
Dimensions	77 x 36 x 15 mm
Weight with no battery	35 g
Classification	Security grade 2/environmental class II
- Complies with	EN 50131-1, EN 50131-3 (digital key)
- number of unique production codes	>1 Million
- environment	indoor general
- operational temperature range	-10 °C to +40 °C
- average humidity	75 % RH, no condensation
- certification body	Trezor Test s.r.o. (no. 3025)
Also complies with	ETSI EN 300 220-2, EN 50130-4, EN 55032, EN 60950-1
Can be operated according to	ERC REC 70-03



JABLOTRON ALARMS a.s. hereby declares that the JA-16J is in a compliance with the relevant Union harmonisation legislation: Directives No: 2014/53/EU, 2014/35/EU, 2014/30/EU, 2011/65/EU. The original of the conformity assessment can be found at www.jablotron.com - Technical Support section.

Note: Disposing of this product correctly will help save valuable resources and prevent any potential negative effects on human health and the environment, which could otherwise arise from inappropriate waste handling. Please return the product to the dealer or contact your local authority for further details of your nearest designated collection point.