

The JA-164J One-way four-button keyfob

The JA-164J is a component of the **JABLOTRON 100** 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 control can also be enrolled to multipurpose relays such as the AC-16x series for direct relay control according to the pre-set mode. The remote is equipped with optical and acoustic indication. It checks its battery status and indicates when the battery is nearly discharged.

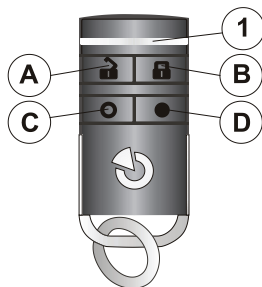


Figure: 1 – LED indication; A, B, C, D – buttons, see their functions according to table 1.

Enrolling the remote control to a control panel

There must be a JA-11xR 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 JABLOTRON 100 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 **F-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 use F-Link SW, Parameters tab and the option “Perform EN50131-1”. (See the JA-10xK control panel installation manual)

Notes:

- Enrolling the remote control to the system is possible by entering the production code via F-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 **F-Link** software – **Devices** tab. Click on the JA-164J'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, i.e. the next button on the remote. 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) • Copy PG • Change PG state • Silent panic **) • Audible panic **) • Health troubles • Report A, B, C, D 	<ul style="list-style-type: none"> • None (button not used) • Copy PG *) • Change PG state • Silent panic **) • Audible panic **) • Health troubles • Report A, B, C, D
Reaction for pair of buttons (segment function) 🔒 - 🔓 / ○ - ● (A-B/C-D)	
<ul style="list-style-type: none"> • Unset / Set • Unset / Partially set • Unset / Partially set / Set • 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 „Copy PG“ reaction to a double press can be used for a 1 s impulse only for the selected PG – double button pressing cannot send a 1s activation signal repeatedly unlike single buttons.
- ***) 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
 - When the button on the remote control is pressed permanently (valid for the “Copy PG“ function) activation is sent continuously every 1 s. The function can be used for the extension of the impulse of a PG output (the chosen PG output has to be set to the function “Copy”). The maximum length of keeping up the activation is 1 minute

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

Take over a user's identity: The selected user will be visible as a source in the event log.

Operation with a multipurpose relay (MPR)

The remote control can also be enrolled to a multipurpose relay of the AC-16x series, to control a relay according to the chosen mode. Each button should be enrolled to the MPR with a different mode. Even one remote can be enrolled to multiple MPRs for example with a different function. When you enroll a keyfob to the control panel and also to an MPR within its RF range, don't select the same buttons. To enroll a keyfob to an MPR, follow the installation manual of the MPR.

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.

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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	2x0.5 s flash of red LED 2x short acoustic signals
Low battery	Short flash of red LED 3x short acoustic signals
Holding the button – transmitting of maintained signal for copy PG	flashing 2x per 1 s 1x short acoustic signal

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 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.

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

Technical specifications

Compatible with: control panel FW LJ(MD)60416+; F-Link 1.4.0+
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. 2 years (10 activations/day)
Communication frequency 868.1 MHz
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
- according to 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, EN 50130-4,
EN 55022, EN 60950-1
ERC REC 70-03

Can be operated according to



JABLOTRON ALARMS a.s. hereby declares that the JA-164J 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 - Section Downloads.



Note: Although this product does not contain any harmful materials we suggest you return the product to the dealer or directly to the producer after use.