

# The JA-154J MS Bi-directional four-button keyfob

The JA-154J MS is a component of the **JABLOTRON 100** system. It uses bi-directional communication. It is designed to remotely control a security system, various appliances (using PG programmable outputs) or to trigger panic alarms and more. 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.

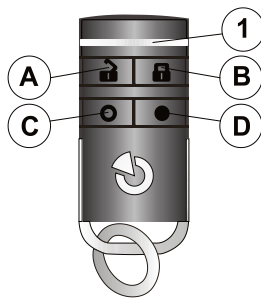


Figure: 1 – LED indication A, B, C, D – buttons, see their functions according to table 1.

## 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. It occupies one position in the system.

The remote can be enrolled to an arbitrary number of JABLOTRON 100 systems. One pair of buttons can control several sections at the same time (common control) and it can show the current status of the section or PG output.

1. The 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 transmission of an enrollment signal press and hold buttons (A+B) simultaneously for at least 3 s (within this time the yellow LED flashes rapidly).
  - c. After 3 s the enrollment signal is sent and confirmed by one long yellow 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 (example: 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-154J'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 (typically setting / unsetting, OFF / ON switching of some appliance, etc.) or a function for each single button A, B, C, D (gate opening, garage door opening, etc.) and also for a double press of the remote. See the following table 1.

Reaction for single button 🔒/🔓/🔴/🟢 (A/B/C/D)	Reaction for pressing simultaneously 🔒+🔓/🔴+🟢 (A+B/C+D)
<ul style="list-style-type: none"> <li>• None (button not used)</li> <li>• Change PG status</li> <li>• Copy PG</li> <li>• Silent panic *)</li> <li>• Audible panic*)</li> <li>• Health troubles</li> <li>• Report A, B, C, D</li> </ul>	<ul style="list-style-type: none"> <li>• None (button not used)</li> <li>• Change PG status</li> <li>• Copy PG *)</li> <li>• Silent panic **)</li> <li>• Audible panic**)</li> <li>• Health troubles</li> <li>• Report A, B, C, D</li> <li>• Read status ***)</li> </ul>
Reaction for pair of buttons (segment function) 🔒 - 🔓 / 🔴 - 🟢 (A-B/C-D)	
<ul style="list-style-type: none"> <li>• Unset / Set</li> <li>• Unset / Partially set</li> <li>• Unset / Partially set / Set</li> <li>• Unset / Set with confirmation</li> <li>• Unset / Partially set with confirmation</li> <li>• Unset / Partially set / Set with confirmation</li> <li>• PG OFF / ON</li> </ul>	

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 reported (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 1s activation signal repeatedly unlike single buttons.
- \*\*\*) The reactions of the buttons which are not supported when the system is configured comply with security grade 2.
- \*\*\*) If there is a pre-set function for the pair of buttons A+B (typically Unset / Set section or PG OFF / ON), then that option also triggers the option „Read status“. If this option is enabled the remote reacts to a double press by showing the current status of the section or PG.

For all functions related to setting the sections, the control panel follows the option „**Ways of setting**“ selected in the Parameters tab.

- a. For „with confirmation“ types of setting (see table 1), for „set with warning“ options and for „set with confirmation“ pressing the buttons in an 8 s period can be repeated and the command is performed..
  - b. 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“). Maximum length of keeping the activation is 1 minute.

**Take over a user's access privileges:** Taking over a user's access privileges for the sections and time limited access according to the specific user, it respects individual access to the controlled section and also limited access to a section if pre-set. Factory settings: disabled.

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

**Delayed panic:** Valid for reactions such as Silent panic and Audible panic. The delay can be set from 5 to 240 s. Cancelling the panic alarm during a running delay can be performed by repeated pressing of the specific button.



**The control panel is able to run a maximum of 5 simultaneous timers (delayed panic alarms).**

## 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.

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

The **lock can be activated** by simultaneously pressing and holding the pair of buttons (A+B) or (C+D) until the yellow LED (1) starts flashing, usually in 3 s. When the yellow LED (1) is flashing release button B and press it again. Activation of the lock function is performed and confirmed by double flashes of the yellow 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 yellow LED and one beep.

## Acoustic indication

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

**Caution: When a reaction for pressing buttons (A+B) or (C+D) simultaneously is set (for example a panic alarm or**

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garage door control), it is necessary to mind that the action is performed first.

The **acoustic indication** can be disabled by simultaneously pressing and holding the pair of buttons (A+B) or (C+D) until the yellow LED (1) starts flashing briefly for the second time, usually in 6 s. When the yellow 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 yellow 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 yellow LED and a double beep.

## LED indication table

Action		Indication
Pressing the button is always indicated by a very short flash of the yellow LED and followed by flashing of the coloured LED according to the performed action. The mentioned indication statuses are valid for the remote's default setting.		
Unsetting	Control function with confirmation by LED	2 s flash of green LED and 2x short acoustic signals
Setting		2 s flash of red LED and 1x short acoustic signal
Partial setting		2 s flash of yellow LED and 1x short acoustic signal
Unsetting after an alarm		2 s flash of green LED and 3x short acoustic signals
Delayed panic		Flashing of red LED until action is done or its cancelling
Setting confirmation request		Flashing of red LED until confirmation (max. 8 s)
Partial setting confirmation request		Flashing of yellow LED until confirmation (max. 8 s)
Pressing of button with no function or lost communication		Short flash of yellow LED 1x short acoustic signal
Low battery	Flashing of yellow LED 3x short acoustic signals	
Holding the button – Copy PG	1x short acoustic signals, red LED lights for whole period of button being pressed	

Table 2. Remote control indication



**If the remote control is out of the RF range of the radio module or MPR, it doesn't indicate status change or signal loss.**

## 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 yellow 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 and remove the discharged battery. Then press any button a few times to discharge the rest of the energy from the capacitors and insert a new battery.

**Battery replacement DOESN'T RESET the keyfob settings nor the locks nor the acoustics.**

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

## Technical specifications

Compatible with:	FW of the JA-11xR radio module LR6x613+ FW of the control panel LJ(MD)60416+ F-Link 1.4.0+
Power – lithium battery	type CR 2032 (3.0 V/0.2 Ah) (Power supply C type according to EN 50131-6)
Low battery voltage detection	≤ 2.2 V
Typical battery lifetime	approx. 2 years (10 activations/day)
Communication frequency	868.1 MHz
RF range	approx 300 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), T 031
- environment	indoor general
- operational temperature range	-10 °C to +40 °C
- humidity	75 %, no condensation
- number of unique production codes	> 1 Million
- certification body	Trezor Test s.r.o. (no. 3025)
Also complies with	ETSI EN 300 220, EN 50130-4, EN 55022, EN 60950-1
Can be operated according to	ERC REC 70-03



JABLOTRON ALARMS a.s. hereby declares that the JA-154J MS 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](http://www.jablotron.com) - Technical Support section.



*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.*