JA-158J (JABLOTRON 100+)

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Wireless wall button

switch to the manual for the JABLOTRON Mercury system

*The device is a component of the **JABLOTRON** system. It is designed to allow the user to remotely activate a panic alarm, control other appliances, can be used as a doorbell or to control the alarm system. Thanks to bi-directional communication the device both visually and acoustically signals confirmation of a successful action. The device utilizes wireless Jablotron communication protocol and is powered by two batteries. The device takes up one position in the system.*

The device should be installed by a trained technician with a valid certificate issued by an authorized distributor.

This product is compatible only with the JA-102K, JA-103K, JA-107K and JA-152KRY control panel units.

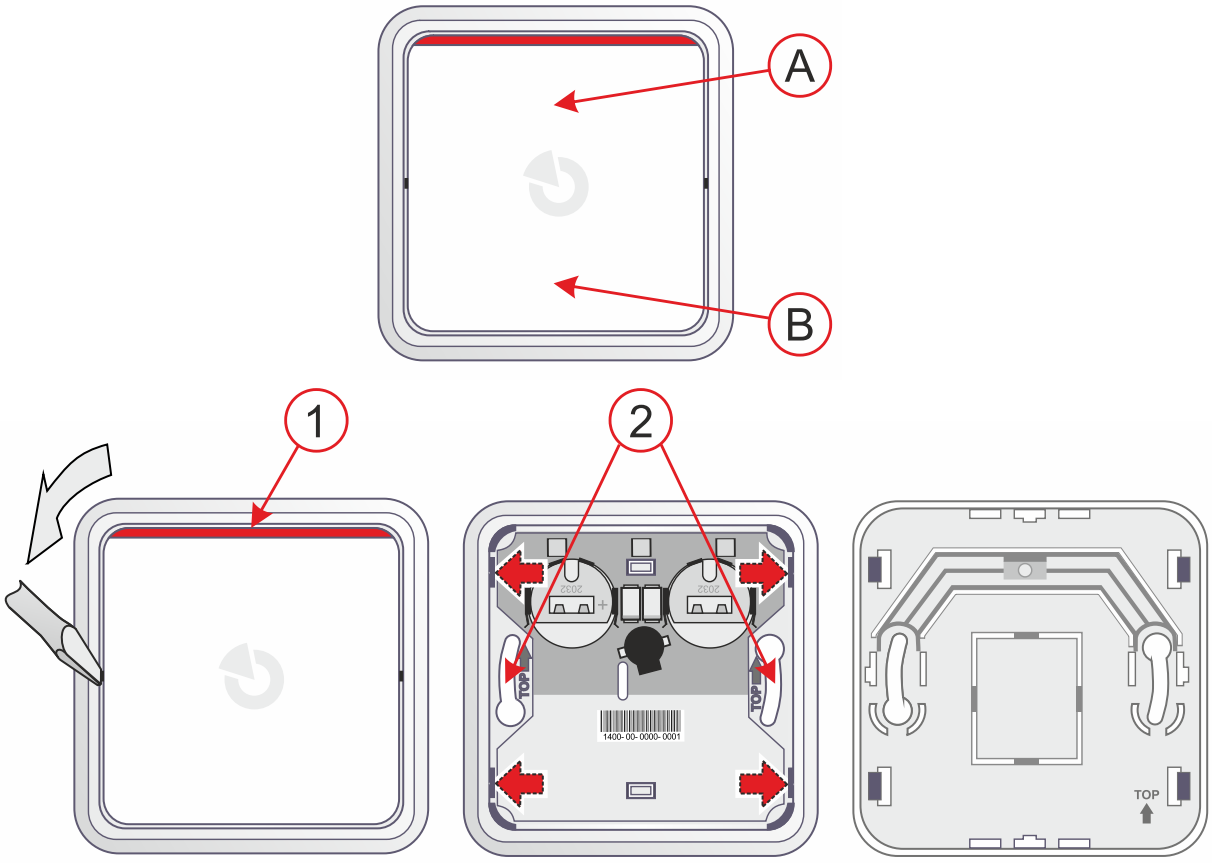


Fig.1: Description of external parts of the product and layout of the button into 3 parts
A, ***B*** *– buttons;* ***1*** *– LED;* ***2*** *– holes for fixing screws;*

Installation

The Jablotron system must be equipped with a JA-11xR radio module in order to enable the functionality of the device. The button must be installed onto a flat surface.

1. Before installation it is necessary to take the device apart into three parts see figure 2a, 2b and 2c.
    a. Remove the top part of the housing (using a screwdriver) as shown in 2a.
    b. Release the bottom part of the housing by pressing the 4 tabs in the corners as shown in 2b. Loosen each of them with a flat-headed screwdriver below a 45 ° angle.
    c. Install the bottom part to the selected area as shown in 2c with the use of two screws. Please note the mark (arrow marked with the word "TOP") indicating the correct orientation of the upper part of the housing.
    d. Insert the middle part into the bottom part so that the four tabs are secured in place as shown on Fig. 2b.
2. Enrol the device to the JABLOTRON system, Follow the instructions stated in the control panel installation manual. Basic procedure:
    a. Select a position in the ***Devices*** tab, in ***F-Link*** and click the ***Enrol*** prompt in order to initiate enrolment mode.
    b. Inserting the batteries (both batteries must be inserted into the device) will result in the transmission of an enrolment signal and the device will be enrolled onto the selected system position.
3. Internal settings of the device may be adjusted within ***F-Link***'s ***Devices*** tab.

Notes:

- If you wish to place the device onto a KU68 type universal box in order to control devices (such as lightning, ventilation, etc.), only the middle and top part of the device may be fastened to it. Furthermore it is necessary to disable the tamper detection function in the device's internal settings via F-Link.
- The device may be enrolled to the system by entering its serial number into the F-Link program. The serial number is located on the rear side of the device (example: 1400-00-0000-0001).
- The device may also be enrolled to the system after batteries are inserted into the device by pressing both the A and B buttons simultaneously (the top cover must be removed while doing so) and holding them for longer than 6 seconds. Performing this action sends out an enrolment signal and the device will be enrolled to a pre-selected position in F-Link.
- If you wish to remove the device from a system, it must be removed via F-Link from its system position.

Important: The button may only be enrolled to the one control panel at a time!

Device communication with the system

The button is equipped with bi-directional asynchronous communication with the JA-11xR radio module which enables changing the internal settings with ease (just as it is with BUS detectors) while taking into account battery lifetime in normal operational mode.

When the device is enrolled to the control panel it works in the so-called *accelerated 90-second mode* until Service mode is terminated (up to 24 h). The detector performs a check every 90 s to monitor whether the control panel remains in Service mode, whether it should apply new settings.

In the normal operational mode, the device communicates periodically with the control panel 1x every 20 minutes. Therefore, it may take the device up to 20 minutes to realize the control panel was switched to Service mode or to save changes made in the internal settings. This period of time can be shortened by triggering the device which will switch it to the accelerated 90-second mode immediately.

Important: It is not necessary to wait for 90 s (or 20 minutes) for the detector to confirm a request to save the changes made in the internal settings. The control panel remembers such changes and transfers them to the detector the next time a periodical communication session occurs.

Button function

The function of the button is comparable to ordinary two-button remote control devices. The wall button may be operated by the upper (button A) or the lower (button B) part of the top part of the device as seen in fig. 1. Each button may be assigned a function via the F-Link program. If an identical function is set for both buttons (A and B), the system will not differentiate which button was pressed to perform the activation. (for example when activating a panic alarm or calling health services).

Internal settings

All adjustments must be done via the ***F-Link*** program – in order to access internal settings, within the ***Devices*** tab, use the ***Internal settings*** option on the device position.

Optical signalling: This parameter enables or disables optical signalling of the device being activated red, yellow, green). This parameter is ON by factory default.

Acoustic signalling: This parameter enables or disables acoustic the signalling of the device being activated. This parameter is OFF by factory default.

Rear tamper contact: This parameter enables or disables the device's rear tamper switch. This parameter is ON by factory default.

A/B button function: Each button may have a pre-set function depending on the configuration, including section control (set, partial set and unset), with the possibility of indicating an alarm (loud or silent distress, fire, health problems) or controlling the PG outputs (PG on, copy or change of status) or reporting pre-defined text messages (Reports A, B, C, D). No function is pre-set by factory default. **Note**: If the **Unset** function is used, the product does not meet the requirements of EN 50131 because it does not require confirmation of authorization.

Delayed panic: Enables the utilization of delayed panic alert reports for a pre-set timeframe in the range of 5 to 240 seconds.

Take over a user's access privileges: By selecting a user, the button takes over the specified user's access privileges, i.e., the device conforms to pre-defined access to system sections and time-limited access to sections. This option is turned OFF by factory default.

Take over a user's identity: The selected user will be recorded as the source of the action in the event log. This option is turned OFF by factory default.

Battery replacement

The control panel automatically detects and reports a low battery status. It is necessary to enter the system into service mode before battery replacement takes place (the button is equipped with a tamper sensor). The device may be opened as shown in Fig.2a. Before placing new batteries into the device, wait at least twenty seconds or repeatedly press the activation button (in order to discharge any remaining energy within the device). In order to assure correct functionality of the device, we recommend the utilization of batteries supplied by the Jablotron distribution network or any other high-quality brand-name lithium batteries.

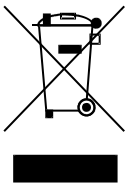
Important: Always replace both batteries. Do not discard the battery into the trash; dispose of it at a waste collection point.

Technical specification

Power	2 x lithium battery, type CR 2032 (3.0 V / 0.2 Ah) (PS type C according to EN 50131-6) Important: Batteries are not included in the packaging
Typical battery lifetime	approx. 3 years (if activated 1x per day)
Quiescent power consumption	15 µA
Maximum power consumption	50 mA
Low battery voltage	<2.2 V
Type of activation device	typ V (min. 5 N, max. 8 N)

Communication frequency	868,1 MHz, Jablotron protocol
Maximum radio-frequency output (ERP)	<25 mW
Communication range	approx. 300 m (direct visibility)
Classification	security grade 2 / environmental class II (EN 50131-1)
Environment	Indoor general
Operational temperature range	-10 °C to +40 °C
Average operating humidity	75% RH, non-condensation
Dimensions	80 x 80 x 20 mm
Weight (w/o batteries)	58 g
Operating conditions according to	ERC/REC 70-03
In compliance with	ETSI EN 300 220-1,-2, EN 55032, EN 50130 4, EN 62368-1, EN 62311, EN IEC 63000, EN 50131-1, -3, -5-3, -6, CLC/TS 50131-11, EN 50134-2
Recommended screw	2 x  ø 3,5x 40 mm (cylindrical / half round head)

JABLOTRON a.s. hereby declares that the JA-158J is in a compliance with the relevant European Union harmonization 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 http://www.jablotron.com – the Downloads 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.