JABLOTRON CREATING ALARMS

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JA-157J (JABLOTRON 100+)

Wireless panic wrist & neck button

switch to the manual for the JABLOTRON 100+ system

*The JA-157J is a component of the **JABLOTRON** system. It is designed to allow the user to remotely activate a panic alarm, furthermore it may be utilized for the remote control of devices and appliances. The button has various uses, it may be worn on the user's wrist with the use of a wrist strap, worn around the neck or it may be fixed onto a surface with the use of a simple mounting platform.*

The button communicates via Jablotron radio protocol and is powered by a single battery cell. The device takes up a one system position. The device is intended to be installed by a trained technician with a valid certificate issued by an authorized distributor.

This device is compatible with JA-103K, JA-107K control panel units.

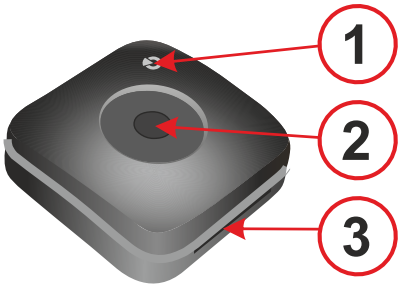


Fig. 1: Description of external parts of the product
***1** – LED; **2** – button; **3** – opening for the wrist strap/lanyard or fixation to the mounting platform;*

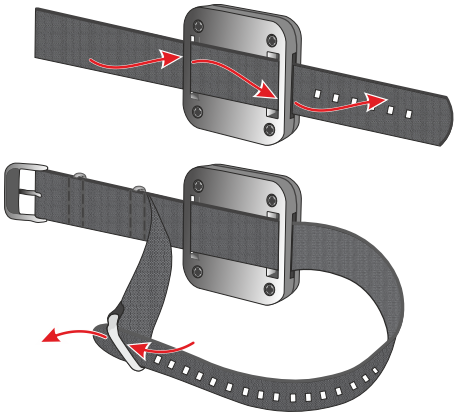


Fig. 2 Wrist strap installation

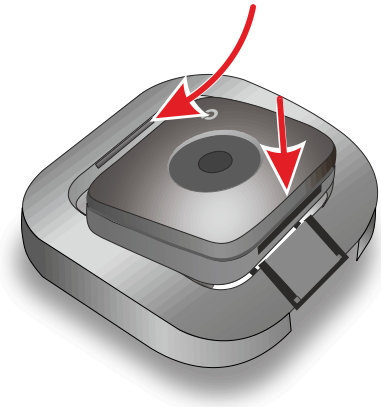


Fig. 3 Mounting platform utilization

Placement of the panic button

1. Wrist placement like a wristwatch (fig.2).
2. Installation on any mountable surface. Warning, the device is not equipped with tamper contacts (as it is considered a portable device).
3. *Neck placement via the use of a lanyard. Important: If the button is worn around the neck on a lanyard, it must be worn on a lanyard which is equipped with a mechanical safety break-away that will disconnect under a pulling force of 40N or higher. A lanyard conforming to this specification is included within the packaging.*

System enrollment

The button may be enrolled to a JABLOTRON system as a device for triggering panic alarms. In order for the device to be operational, the system must be equipped with a JA-11xR radio module.

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 ***Enroll*** prompt in order to initiate enrolment mode.
b. Press and hold the device's button until an orange LED starts to flash and then lights up (for approx. 4 seconds).
c. By lighting up, the device signals successful transmission of an enrollment signal and the device has been enrolled to the control panel.

Notes:

- The device may be enrolled to the system by entering it's serial number into the ***F-Link*** program. The serial number is located on the back side of the device below the barcode. (example: 1400-00-0000-0001).
- Should you wish to remove the device from the system, it must be removed from the appropriate position via F-Link.

System communication

The device 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 considering battery lifetime in normal operational mode.

When the detector 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 detector communicates periodically with the control panel 1x every 20 minutes. Therefore it may take the detector 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 activating the button 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.

Functionality

Pressing the button will result in it's activation and a communication packet being sent to the control panel unit. Successful communication is indicated by a long red flash of the LED, unsuccessful communication is indicated by a yellow flash of the LED.

It is possible to pre-set a panic alarm activation delay on the button, in this configuration the LED will flash red for the duration of the delayed panic alarm activation. Alarm activation delay may be utilized only with Audible panic and Silent panic device reaction. Once the panic alarm activation delay expires, the alarm will be activated. The panic alarm may be cancelled at any time during the duration of the delayed panic alert simply by pressing the button once more.

Testing the panic button

The signals received by the control panel from the JA-157J may be checked and measured via ***F-Link*** within the ***Diagnostics*** tab.

Internal settings

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

Optical signalling: *YES*/NO*. Optical indication of button activation and system feedback reception confirming that the action has been successfully performed or delayed panic alert indication may be turned off in it's entirety.

Delayed panic alert: *YES/NO**. Enables delayed panic alert reports for a pre-set timeframe in the range of 5 to 240 s.

**factory default*

Battery replacement

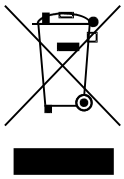
The control panel automatically detects and reports low battery status. Once a low battery is detected, it will be reported to the control panel unit which in turn will report the status to the user, furthermore low battery status is signalled by short flashing of the LED (3x) every 5 minutes. Please replace the battery at the earliest convenience. The casing of the device may be opened by removing the four screws on the lower half of it's casing. The batteries should be replaced by a service technician.

Do not discard the battery into the trash; dispose of it at a waste collection point.

Technical specification

Power	lithium battery, type CR 2032 (3.0 V/0.2 Ah)
Typical battery lifetime	approx. 3 years (if activated 3x per day)
Quiescent current consumption	6 µA
Maximum current consumption	40 mA
Communication band	868.1 MHz, Jablotron protocol
Maximum radio-frequency output (ERP)	5 mW
Communication range	approx. 300 m (direct visibility)
Dimensions (without accessories)	41 x 41 x 13 mm
Weight (without accessories)	20 g
Classification	security grade 2/environmental class II (EN 50131-1)
Environment	Indoor general
Operating temperature range	-10 °C to +40 °C
Average operating humidity	75 % RH, without condensing
Can be operated according to	ERC/REC 70-03
Certification body	Trezor Test s.r.o. (Nr. 3025)
In compliance with	ETSI EN 300 220-1,-2, EN 50130-4, EN 55032, EN 62368-1, EN 62311, EN IEC 63000, EN 50131-1, EN 50131-3, EN 50131-5-3, EN 50131-6, EN 50134-2, CLC/TS 50131-11
Recommended screw	2 x  3.5 x 40 mm (with cylindrical/half round head)

CE JABLOTRON ALARMS, a. s., declares that the product JA-157J is designed and manufactured in compliance with the harmonization legislation of the European Union: directives No: 2014/30/EU, 2011/65/EU, when used as intended. The original Declaration of Conformity is available at http://www.jablotron.com in 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.

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