The JA-162A Internal wireless siren

*The JA-162A is a component of the **JABLOTRON 100** system. It is used for alarm indication inside a building. It can also be used for other acoustic indications (PG outputs, entry/exit delays and doorbell). Pressing the siren button can silence the alarm (= confirmation of a person's presence in the building) or trigger a panic alarm (optional function). The siren is equipped with a backup battery for cases when AC dropouts can happen. It has also got a built-in detector of siren tampering by disconnection from its electrical socket. The siren takes one position in the system and should be installed by a trained technician with a valid manufacturer's certificate.*

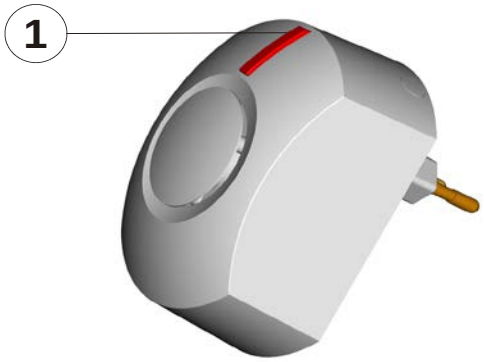

Figure 1.: 1 – transparent control button

Installation

It is necessary to perform the enrollment procedure in service mode and the system has to be equipped with an JA-11xR radio module.

1. Plug the siren into the required electrical socket where there is still a good RF range to the control panel.
2. The control button (1) lights permanently with a yellow colour and it means the siren is ready to be enrolled. If the control button (1) doesn't light permanently, then follow the Warning below.
3. Go to the ***F-link*** software, select the required position in the ***Devices*** tab and click on the **Enroll** option – enrollment mode is then launched.
4. Press the control button (1) on the siren. The siren is thus enrolled to required position and the yellow LED goes off.
5. Set the siren properties (see the Internal setting chapter).

Warning: *If the battery is low then the siren can't be enrolled to the control panel. This status is indicated by the periodical flashing of the yellow LED each 15 s. It is strictly necessary to wait (usually a few minutes) until the backup battery is charged to the point when it is able to transmit the enrolling signal. When the backup battery is fully charged (permanently lit yellow LED), open the enrollment mode and then press the control button (1) to transmit an enrolling signal.*

If the siren is unplugged from the electricity then it will be able to work for 12 hrs from the backup battery. When the backup battery voltage reaches the critical level, then the siren is turned off to protect the backup battery against damage.

Internal settings of the siren

Open the ***F-Link*** software, go to the ***Devices*** tab. Click on the **Internal settings** option at the siren's position to open a dialog window where you can set the following options: (* indicates default settings).

The Setting tab:

Acoustic indication of an intrusion alarm from sections: determines for which sections the siren should indicate an intrusion alarm. The default setting is the indication of an intrusion from all sections.

Reaction: determines whether the siren should indicate **IW*** (internal warning) or **EW** (external warning) signals. Alarm indication with this siren can also be completely disabled (other functions remain active).

Siren sound: **Intermittent*, Continuous**

Maximum siren time: **1, 2, 3*, 4, 5** minutes and **OFF –** if the OFF option is selected the acoustic indication corresponds to the **Alarm length** parameter in the ***Parameters*** tab in the ***F-Link*** software

When controlled by a section: **YES / NO*** – if enabled, the siren beeps 1x after setting, 2x after unsetting and 3x when unsetting after an alarm. Valid only for the selected sections.

Other acoustic indication from sections: determines for which sections the siren will indicate other types of alarm. The default is indication for all sections.

Higher volume: **YES / NO*** – affects only entrance/exit delay signalling and sounds indicating PG outputs triggering

Entry delay: **YES / NO*** – if enabled, the siren indicates the entrance delays of the selected sections.

Exit delay when partially set: **YES / NO*** – if enabled, the siren indicates the exit delays of the selected sections when the system is partially set. This option is available only when the exit delay of fully set sections is enabled.

Exit delay: **YES / NO*** – if enabled, the siren indicates the exit delays of the fully set selected sections.

Tamper detection: **Disabled, Always*, During alarm** – the default setting is that any manipulation with the siren is taken as a tampering. It can be set to be taken into account only during an ongoing alarm or it can be completely disabled. This function works as a confirmation of a person's presence in the building.

The Signalling PG tab:

LED indicates sounding PG: if enabled, an acoustic indication triggered by an active PG is continuously indicated by LED.
Sound indication can be set for each PG output:

Slow beeping – beeps 1x per second (as long as the PG is active)

Quick beeping – beeps 2x per second (as long as the PG is active)

1x ON / 2x OFF – beeps 1x when the PG is activated, beeps 2x when the PG is deactivated

20 secs of beeping – beeps continuously for 20 secs when the PG is activated

Melodies 1 to 4 – four available doorbell melodies

Control panel reaction to pressing the siren button:

The default setting is that pressing the siren button (1) during an alarm mutes the siren and concurrently confirms a person's presence in the building (a report is sent).

It is possible to change the siren button reaction in order to function as a panic alarm button (1) in the ***Devices*** tab in the ***F-Link*** software. In such a case the system responds to the pressing with a panic alarm in the section to which the siren has been assigned.

Test – by pressing the **TEST** button you can test the siren function and the siren reacts to this pressing by 3 s alarm sound.

Note: *The siren sound has the highest priority, the beeps during control have a lower priority and the PG output activity indication has the lowest priority (PG1 has a higher priority than PG2 etc). The beep with higher priority always terminates the beep with a lower priority.*

To set the siren to comply with security grade 2 according to the EN50131 norm, use F-Link SW (1.4.0 and higher), the Parameters tab and the option System profiles.

Backup battery replacement

The siren checks the backup battery status automatically. The current status can be checked by the ***F-link*** software tab called ***Diagnostics*** (current battery status, its voltage when loaded and unloaded). When a backup battery fault is triggered, then it is necessary to replace it as fast as possible to avoid siren malfunctioning.

Battery replacement can only be done by a person with an adequate electrotechnical qualification and only when the siren is disconnected from its electrical socket.

Battery replacement procedure:

1. Unplug the siren from the electrical socket.
2. Unscrew the 4 locking screws on the siren's rear side and remove the rear side carefully.
3. Take out the PCB from the front part.
4. Now it is possible to replace the old backup battery. Fix the new backup battery by the ties and connect it by connector to the PCB.
5. Re-assemble the siren in reverse order of the points (1 – 3) – be careful, the spring has to be correctly assembled on the LED's body otherwise the button will not work (1).

The control panel must be in service mode (see control panel installation manual) then it is possible to open the siren cover, **before you start changing the battery**. Valid when Tamper detection setting is enabled. Always use a 3.6 V, 170 mAh (BAT-3V6-N170) backup battery.

Note: *If the battery is low (as reported to the control panel) the siren is not able to fully perform all its functions.*

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Technical specifications

Power supply	230 V / 50 Hz, 0.5 W, protection class II
Supply voltage range	207 ÷ 253 V
Nominal current	41 mA
Maximal current	150 mA
Backup battery / lifetime	3.6 V; 170 mAh / 3 years
/ minimum voltage when loaded	3.0 V
/ maximum voltage when unloaded	4.5 V
Battery low voltage	3.2 V
Communication frequency	868.1 MHz, JABLOTRON protocol
Communication range	approx. 300 m (open area)
Sounds (melodies)	8 optional for PG output indication
Classification	Security grade 2 / Environmental class II.
- according to	EN 50131-1, EN 50131-4, EN 50131-5-3
- acoustic level	90 dB / 1 m
- back-up supply	type W / 12-hour back-up
- operational environment	indoor general
- operational temperature range	-10 °C to +40 °C
- average operational humidity	75 % RH, non-condensing
- certification body	Trezor Test s.r.o. (no. 3025)
Siren cover conformance	IP40 according to EN 60529
Mechanical resistance	IK08 according to EN 50102
Dimensions, weight	90 x 64 x 80 mm, 110 g
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-162A is in a compliance with the relevant European 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 – the Downloads 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.