JA-15A *Wireless internal siren to an AC socket*

*The JA-15A is a component of the **JA-10** system. It is used for alarm indication inside a building. It can also be used for other acoustic indications (PG outputs, entry/exit delays). 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.*

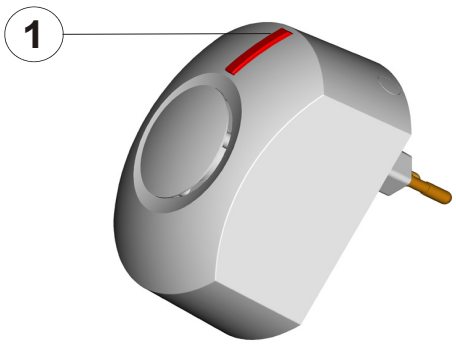

Figure 1: 1 – transparent control button

Installation and enrolling the siren to the control panel

It is necessary to perform the enrollment procedure in service mode and the system has to be equipped with an JA-111R 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 ***N-Link*** software, select the required position in the ***Devices*** window 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

Go to the ***Devices*** tab in the N-Link software. When you are at the siren position, use the ***Internal settings*** option to open a dialog window where you can set: (* indicates default settings).

Setting tab:

Acoustic indication of alarms from sections: defines for which sections the siren should indicate an alarm and system setting. The default setting is indication for all sections (1, 2, 3, 4).*

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

Siren sound: Intermittent*, **Continuous**

Maximum siren time: No, 1, 2, 3*, 4, 5 minutes.

During section control: Enabled/Disabled * - if enabled, the siren chirps once after setting, twice after unsetting and three times when unsetting after an alarm. It only does so for selected sections.

Other acoustic indication from sections: defines for which sections the siren should indicate entry/exit delay. The default setting is indication for all sections (1, 2, 3, 4).*

Higher volume: Enabled/Disabled* - affects only entrance/exit delay signalling and sounds indicating PG output triggering.

Entry delay: Enabled/Disabled* if enabled, it indicates the entrance delays of the selected sections.

Entry delay when partially set: Enabled /Disabled* if enabled, it indicates the exit delays of the selected sections when partially set.

Exit delay: Enabled/Disabled* if enabled, it indicates the exit delays of the selected sections.

Detection of tampering: by the built-in accelerometer the siren detects its disconnection from electrical socket. Options **Disabled, Always*, During alarm.**

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

Signalling PG tab:

Sound indication can be set for each PG output:

No	-	PG output generates no sound
Slow beeping	-	slow chirping – 1 per second (for the whole period when the PG is active)
Quick beeping		rapid chirping – 2 per second (for the whole period when the PG is active)
1xOn/2xOff	-	1 chirp when the PG is activated, 2 chirps when the PG is deactivated
20 s of beeping	-	20 s long chirp when the PG is activated
Melody	-	melody selection

***Note:** The siren sound has the highest priority, the chirps 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 chirp with higher priority always terminates the chirp with a lower priority.*

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 (1) reaction in order to function as a panic alarm button in the ***Devices*** window in the ***N-Link*** software. In such a case the system responds to the pressing with triggering a panic alarm in the section to which the siren has been assigned.

To set the siren to comply with security grade 2 according to the EN50131 norm, use N-Link SW, 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 N-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.

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 Detection of tampering 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*

Battery replacement procedure:

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.

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).

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Technical specifications

Power supply	230 V/50 Hz, 0.5 W, protection class II
Supply voltage range	207 V ÷ 253 V
Nominal current	41 mA
Maximal current	150 mA
Backup battery/lifetime	3.6 V; 170 mAh/3 years
Battery low voltage	≤ 3.2 V
Communication band	868.1 MHz, protocol JA-10
Communication range	approx. 300 m (unrestricted 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 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 300 220-2, EN 50581, EN 50130-4, EN 55032, EN 68368-1,
Can be operated according to	ERC REC 70-03

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JABLOTRON ALARMS a.s. hereby declares that the JA-15A 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 - Technical Support 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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