JA-151A Wireless external siren

The JA-151A is a component of the **JABLOTRON 100** system. It is used for system alarm indication outside a building. It can also be used for supplementary acoustic signalling (PG activation, arming, chirps). The siren is equipped with a backup battery which powers the siren when the main power is disconnected. The siren should be installed by a trained technician with a valid certificate issued by an authorized distributor.

Installation

The siren should be installed on a vertical wall, with the flasher facing downwards. Avoid installing the siren near the gutters and on other places where there is a danger of ice accumulation.
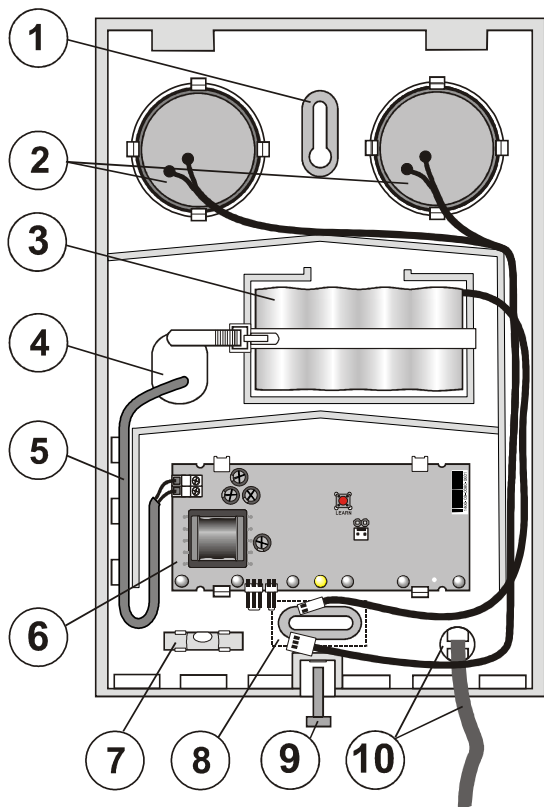

Fig: 1 – hole for installing; 2 – piezo sounders; 3 – NiCd battery; 4 – hole for cable; 5 – main power cable; 6 – PCB; 7 – spirit level; 8 – hole for installation with tampering detection; 9 – front cover screw; 10 – string with clip connecting the front cover for easy installation

1. Open the front cover of the siren by releasing the screw (9).
2. Push the power cable (5) through the hole (4) in the bottom part and secure it using the plastic tabs.
3. Attach the siren onto a suitable place using 2 screws through the holes (1) and (8). The spirit level can be used for easy installation (7).
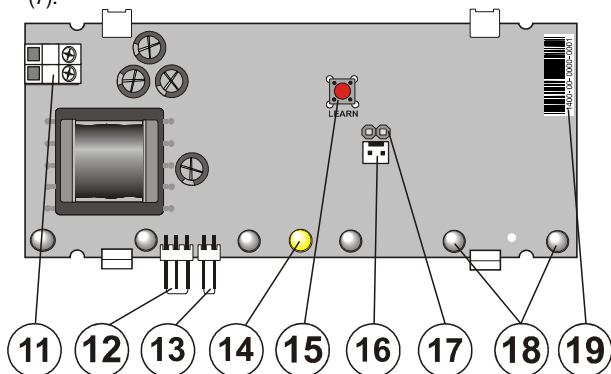

Fig 2: 11- main power terminals; 12 – piezo siren connection (attention: high voltage); 13 – backup battery connection; 14 – yellow fault indicator; 15 – enrollment button; 16 – external antenna connection; 17 – external antenna jumper; 18 – high intensity red LED flashers; 19 – production code

4. Connect the backup battery to the connector (13).
5. Connect the main power cable to the terminals (5).
6. Proceed according to the control panel installation manual.
   Basic procedure:

a. When the power supply is connected, the yellow LED (14) starts flashing to indicate that the siren has not been enrolled into the system.

b. Go to the **F-Link** software, select the required position in the **Devices** window and click on the Enroll option – the enrollment mode is then launched.

c. Press the button marked LEARN (15) – the siren is thus enrolled and the yellow LED indicator goes off.

7. Put back the siren cover and attach it using the screw (9).

Internal settings of the siren

The siren properties can be set in the **Devices** window of the F-link software. When at the siren position, use the **Internal settings** option to open a dialog window where you can set: (default settings are marked *):

Sections: to set for which sections the siren should indicate an alarm, as well as setting the chirps. **The default setting is indication for all sections.**

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

Siren sound: interrupted*, uninterrupted.

Alarm indication length: 1, 2, 3*, 4, 5 minutes.

Chirps during section control YES / NO* if enabled, the siren chirps once upon setting and twice upon unsetting and three times upon unsetting after an alarm. The signalling only works for the preset sections.

Flashes every 60 seconds: YES / NO* optional indication of siren functioning.

PG output activity indication

The siren can indicate the activity of selected PG outputs with its chirps.

Chirp 1 – slow chirping - 1 per second (for the whole period when the PG is active)

Chirp 2 – rapid chirping - 2 per second (for the whole period when the PG is active)

Chirp 3 - 1 chirp when the PG is activated, 2 chirps when the PG is deactivated

Chirp 4 – a long 20 sec chirp when the PG is activated

Sound priorities

The siren sound has the highest priority, the control chirps have a lower priority and the PG output activity indication has the lowest priority (PG1 has a higher priority than PG2 etc). A chirp with a higher priority always terminates a chirp with a lower priority.

External antenna use

To improve the communication quality between the control panel and the outdoor siren you can connect an external antenna (AN-80, AN-81). Plug the antenna into the connector (16) on the PCB. When an antenna is plugged in, disconnect the jumper (17).

Technical specifications

Power	12 V DC
	230V AC/12V DC optional adaptor
Communication band	868.1 MHz, JABLOTRON protocol
Communication range	approx. 300 m (open area)
Backup battery / lifetime	NiCd pack 4.8 V / 1800 mAh
	approx. 3 years
- minimum loaded voltage	4.0 V
- maximum unloaded voltage	6.0 V
	Reusable battery strap
Piezo electric siren	110 dB/m (with fully charged battery)
Dimensions	200 x 300 x 70 mm
Classification	grade 2
According to	EN 50131-1, EN 50131-4
Environmental class	IV general outdoor -25 to +60 °C
Security grade	IP34D
Also complies with	ETSI EN 300220, EN 50130-4,
	EN 55022, EN 60950-1
Can be operated to	ERC REC 70-03

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