

SIREN BT

USER MANUAL

Dear Client,

To install AUTHOR-ALARM anti-theft equipment, please use authorized dealerships or certified installation centers **only**.

The developer and manufacturer cannot be held liable for any damage resulting from the use of equipment for other than its intended purpose, non-compliance with safety rules, or neglecting the requirements set out herein. AUTHOR-ALARM equipment installed by any other third parties or individuals is not subject to warranty and service maintenance.

CONTENTS

BACKGROUND INFORMATION.....	3
OPERABILITY CHECK.....	4
INSTALLATION.....	4
Wiring scheme	4
Functionality of wires	5
Installation recommendations.....	5
Wiring notes	5
HOW TO PAIR DEVICES.....	6
Pairing with IGLA ALARM or IGLA ECO	6
Functionality of SIREN BT + IGLA.....	8
Siren output.....	8
Output to blocking	8
Input of hood limit switch.....	9
Service mode.....	9
SPECIFICATIONS	10
COMPLETE SET	10

BACKGROUND INFORMATION

SIREN BT (hereinafter referred to as the siren) is a compact piezoelectric radio siren designed to work with IGLA ALARM and IGLA ECO security systems.

The system transmits siren control commands via a secure Bluetooth protocol. Thanks to wireless control, the installer does not have to lay additional wires from the passenger compartment to the engine compartment, which increases the secrecy of the security system. The security system allows you to connect an extra engine blocking relay and a hood limit switch to expand functionality.

ATTENTION!

The manufacturer reserves the right, without any prior notice to the user, to introduce changes to the product design to improve its operation and technical specifications.

Warranty card

It is recommended to check carefully if the warranty card has been filled out correctly. Make sure it contains the seal of the dealership or installation center, the date of sale, and the salesperson's signature with full name. If the warranty card is filled out incorrectly, this may result in denial of warranty maintenance.

OPERABILITY CHECK

Before installing the siren, it is recommended to check its operability. Just connect the black wire to the ground and the red wire to "+". The siren will produce one sound signal to confirm that it works properly.

INSTALLATION

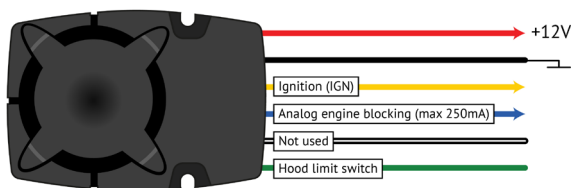


Connect the siren to the car only when ignition is off.



The manufacturer cannot be held liable for potential consequences of failure to observe safety measures (including damage to the car or malfunction of standard electrical equipment).

Wiring scheme



Functionality of wires

1. **Red.** Permanent "+" (12V).
2. **Black.** Ground "-".
3. **Yellow**¹. Input "+". Ignition (IGN).
4. **Blue.** Output "-". Analog engine blocking (max 250mA).
5. **Black and White.** Not used.
6. **Green.** Input "-". Hood limit switch.

Installation recommendations

It is recommended to install the siren in places that prevent its mechanical damage, exposure to aggressive liquids and moisture. During installation, do not shield the built-in antenna.

Wiring notes

- Bundle the wires and protect them with an insulating tape or corrugated tubing.
- Do not allow wires to be pinched with lining boards of the car's interior.
- Do not bend wires over sharp edges of the car's metal parts.
- Use the car's standard places for laying wires or rubber lead-throughs.

¹ This connection is mandatory. Connect this input to the car's ignition wire on which +12V occurs without delay (when the key is turned to the IGN ON position or the Start/Stop button is pushed) and immediately disappears when ignition is turned off.

- Use corrugations when passing from the car's stationary part to the moving one and when installing any optional devices.
- Use a wire of the same or larger cross-section if you need to extend another wire.
- To ensure stealthiness of operation, choose insulating materials similar to those used in the car.

HOW TO PAIR DEVICES



Carefully push the service button the number of times equal to a feature status. Otherwise, you may set up some other feature by mistake.



It is recommended to pair the siren with IGLA only after both devices have been installed in the car.

Pairing with IGLA ALARM or IGLA ECO

To pair the devices, follow these steps:

1. Connect the siren's black and blue wires to the ground.
2. Simultaneously apply power (+12V) to the red and yellow wires of the siren.
Three sound signals will follow, indicating that the siren is ready for pairing.
3. Turn on ignition but do not start the engine.
4. Get authorized.
If successful, two service indication signals will follow.

5. Press the gas pedal as far as it goes and hold it¹.
6. Enter the current PIN code.
The system will switch into the PIN Change mode while service indication will be repeating once every three seconds.
7. Release the gas pedal.
8. Push the service button 22 times. Each keystroke must be confirmed with an indication signal.
When completed, 22 service indication signals will follow.
9. To confirm pairing, two short sound signals will follow from the siren.
10. Turn off ignition.
11. Disconnect the siren's yellow wire from power supply and the blue wire – from the ground.
12. Connect the siren as per the wiring diagram.

To unpair the siren from IGLA ALARM or IGLA ECO, follow these steps:

1. Turn on ignition but do not start the engine.
2. Get authorized.
If successful, two service indication signals will follow.
3. Press the gas pedal as far as it goes and hold it¹.
4. Enter the current PIN code.
The system will switch into the PIN Change mode while service indication will be repeating once every three seconds.
5. Release the gas pedal.
6. Push the service button 23 times. Each keystroke must be confirmed with an indication signal.

¹ For some cars, another control is used instead of the gas pedal. (See our website service.author-alarm.com.)

When completed, 23 service indication signals will follow.

7. Turn off ignition.

FUNCTIONALITY OF SIREN BT + IGLA

Siren output

The siren completely duplicates information and alarm signals produced by IGLA ALARM or IGLA ECO (see manuals for each system).



For IGLA, it is possible to configure the duration of the siren sound when switching into the Armed mode. You can set the duration in the range from 5 ms to 1,000 ms. The default value is 60 ms. Configuration is carried out via Author Flasher.

Output to blocking

The siren repeats IGLA's NC logic of the output to analog blocking. If communication with the system is lost, the output will turn off after you turn off ignition.

The output operation logic depends on an engine blocking algorithm applied by IGLA:

- **Engine Start Inhibit.** The control signal "–" occurs on the wire when trying to start the engine if CAN blocking is not supported or its operation is hindered.
- **Engine Shut-off.** The control signal "–" occurs on the wire after shifting the automatic transmission selec-

tor from the P position or starting to drive with manual transmission if CAN blocking is not supported or its operation is hindered.

When blocking is triggered, the control signal "-" disappears from the wire in five or six seconds after you turn off ignition.

Input of hood limit switch

The siren can serve as a source to detect that the hood is open. Just connect the siren's green wire (output to the hood limit switch) to the hood limit switch.

Service mode

The Service mode is designed to disable IGLA's anti-theft and comfort features while the car is in a service center. The siren switches into the Service mode automatically when this mode is enabled in IGLA. If successful, the siren will produce five sound signals.

If IGLA is in the Service mode, the siren:

- Goes into the Low Power mode.
- Will not produce a one-time sound signal of operability check (see "Operability check" on Page 4).

After exiting the Service mode, the siren will produce one sound signal.

SPECIFICATIONS

Current consumption	
In the Stand-by mode (ignition off)	3.8mA
In the Active mode (siren on)	250mA
In the Service mode	0.32mA
Operating voltage	8-15.5V
Operating temperature	- 40°C to +80°C
Sound pressure	110dB
Data transfer protocol	Bluetooth Low Energy
Moisture protection	IP65
Dimensions (LxWxH)	96x60x19 mm

COMPLETE SET

SIREN BT siren	1 item
User manual	1 item
Package	1 item

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference with television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

RF EXPOSURE INFORMATION

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

WARRANTY CARD

The warranty period is 18 months from the date of manufacture.

Within this period, free technical support and repairs are available.

Warranty obligations do not apply to the following cases:

- Wear and tear of consumables and product parts subject to wear and tear during operation.
- Improper operation or improper maintenance of the product.
- Any damage to the product that occurred during transportation, handling, or storage.
- Traces of repair, disassembly, or other unauthorized interventions in the design of the product.
- Any changes to the product that are not agreed upon with the manufacturer.
- Any elements removed from the product following a malfunction before the arrival of the manufacturer's specialists.
- Exposure to moisture and aggressive environments.

The product is accepted for warranty repairs in its own packaging and complete set.

Lack of packaging material is considered as non-observance of the rules for transporting the product. The warranty does not cover any damage caused to any other equipment operating jointly with this product.

I have checked the product for completeness __, operability __, and absence of mechanical damage __.

I have read and agree with the terms of warranty service:

Buyer _____

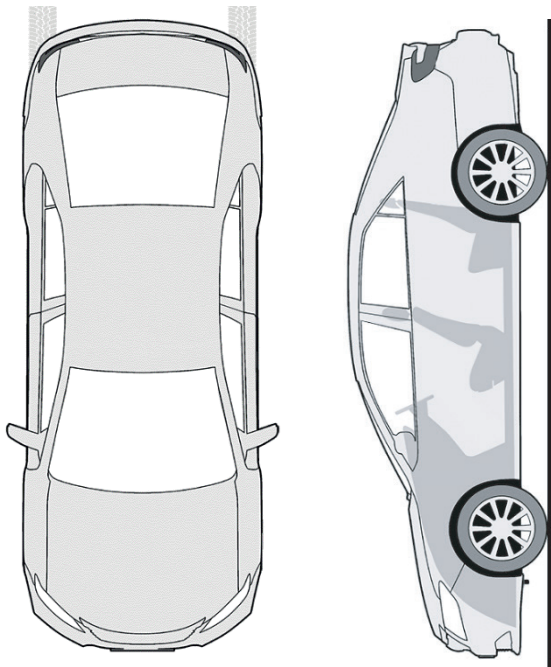
Seller _____

Name (model) _____

Date of sale ____ / ____ / ____

Seal

SYSTEM INSTALLATION PLACE



Do not keep this manual inside the car.



Manufactured by AUTHOR-ALARM

The developer and manufacturer reserves the right to make technical improvements that are not specified in this manual. For more details, please go to the website:

author-alarm.com

