Ksenia®
security innovation

vox-C

BUS Outdoor siren

Installation manual

INTRODUCTION

vox-C outdoor siren is a luminous and powerful alarm sounder, high sound emission with high output magnetodynamic exponential horn which plays dual-tone sound; it is equipped with three high brightness orange LEDs.

vox-C siren is powered by KS-BUS of lares 4.0 (13.8V) and by a 12V backup battery (not included) in case of power failure; voltage current on BUS and battery charge level are constantly monitored, the values are shown on real time section of BUS peripheral. In addition, the control panel is able to report both the lowering charge level of battery and any battery failure.

vox-C siren is protected against opening or removal from wall (tamper protection) and BUS wire-cut.
In addition, it is equipped with a temperature sensor to display the temperature on display of Ksenia keypads and lares 4.0 User App but also on the real time of vox-C BUS peripheral.
Resin insulation of electrical equipment and materials used guarantee resistance against bad weather conditions, over time.

Easy to install because it is connected to lares 4.0 via the KS-BUS, **vox-C** is also easy to program as it allows remote configuration.

TECHNICAL CHARACTERISTICS

- Magnetodynamic speaker exponential resistance 4ohm;
- 3 orange color signaling LEDs;
- 2 tampers: anti-opening and anti-removal;
- metallic under-cover, ABS bottom of case and external cover;
- 1 temperature sensor to display the temperature on the Ksenia keypads and on lares 4.0 User App;
- In case of power failure from KS-BUS, a 12V 2Ah lead backup battery (not included) supplies the siren, if the battery voltage drops below 9V the siren turns off;
- programmable monotone or two-tone sound.

TECHNICAL CHARACTERISTICS

Power supply by KS-BUS .... 13.8 V (max) - 9V (min)
Backup battery (not included) .... 12V - 2Ah Pb
Absorption MAX .... 250 mA
Noise level .... >105 dBA - 1m
Magnetodynamic speaker exponential resistance .... 21W 4 ohm
Environmental class IV
Protection level IP44
Operating temperature... -10°C +55°C
Dimensions 310x226x92mm
Weight .... 1.8 Kg (without battery)
Color .... White pearl

DESCRIPTION OF THE PRODUCT
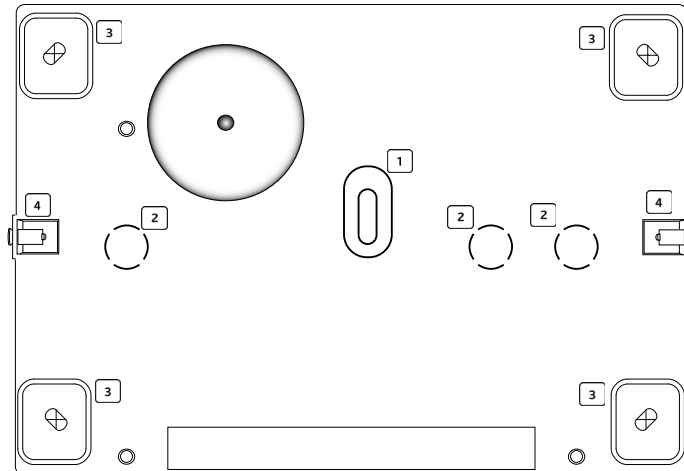
Dimensions
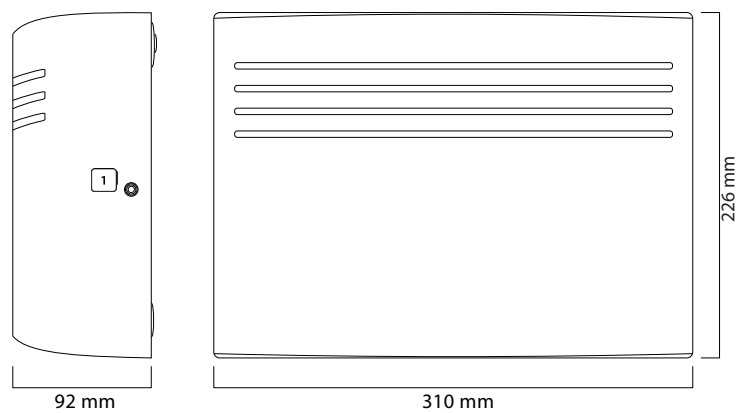
Dimensions: 310 x 226 x 92 mm (LxHxW).
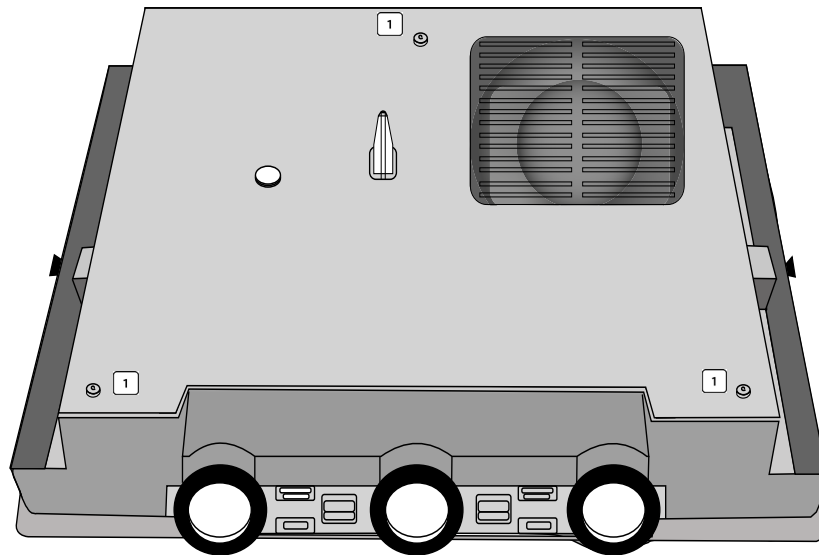
Legend:

[1] Screw to open the cover.

Back

Legend:

[1] Tamper anti-removal from the wall
[2] Breakable holes for the cables passage
[3] Back siren locking holes to the wall
[4] Two screws to open the cover

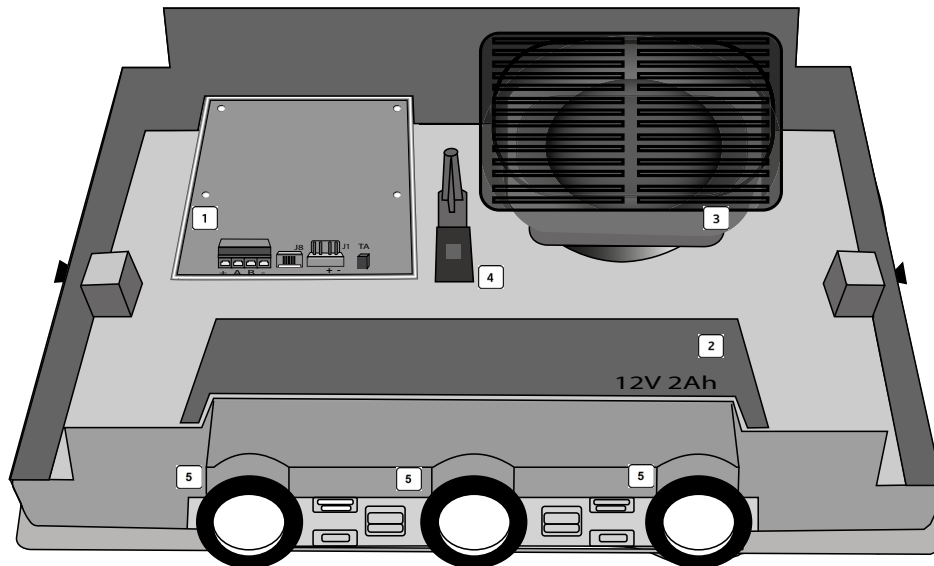# Internal cover

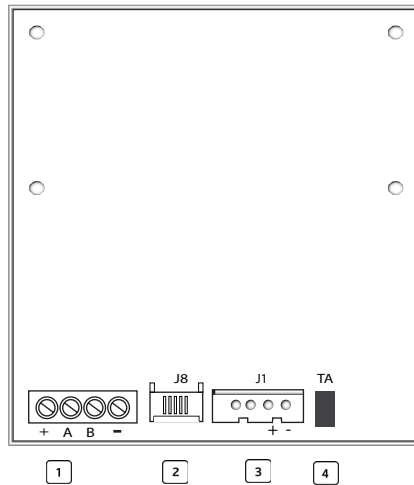**Legend**:

[1] Undercover locking / opening screws.

Inside view

Legend:

[1] vox-C PCBA
[2] 12V/2Ah lead battery (not included)
[3] Magnetodynamic exponential speaker
[4] Anti-opening tamper
[5] Orange LEDs

![Ksenia security innovation logo]

PCBA vox-C

[1] Connection clamps to the KS-BUS of lares 4.0
[2] Connector for LED connection
[3] Connector for battery and horn connection
[4] TA connector TA for anti-opening and anti-removal

INSTALLATION

The siren has to be installed in a hardly accessible location to deter tamper attempts. The wall chosen must not have any depression or protrusion in order to avoid compromising the tamper protection function.
To ensure a correct installation comply the following steps:

    1. Drill 4 holes on vertical wall, use the drilling guide for dimensions, see figure below;

DIMENSIONS EXPRESSED IN mm.
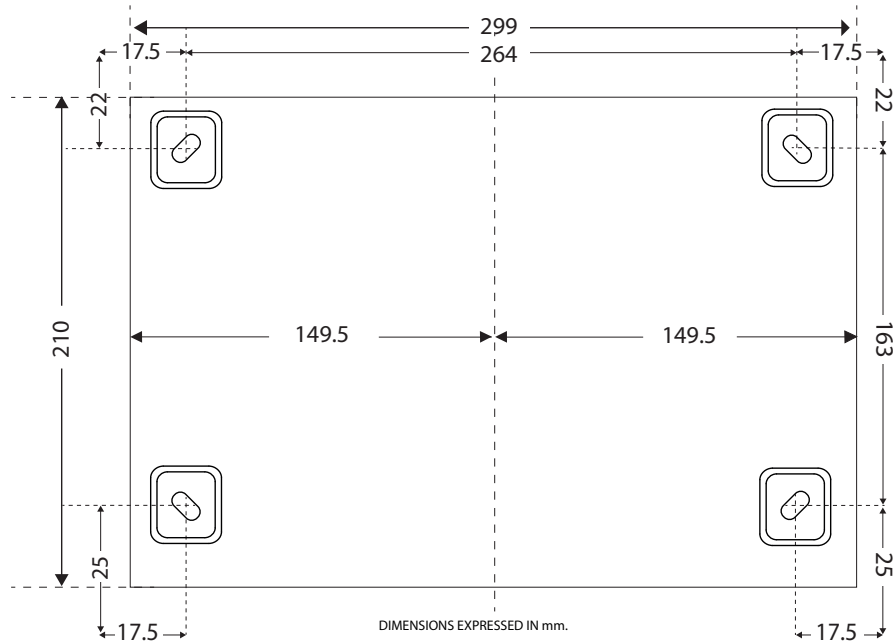
2. unscrew the screws to open the external cover (see also "Dimensions" page 3) and internal cover (see also "Internal cover" page 5);
3. pass the cables coming from the control panel through the breakable holes (see also "Back" page 4);

ATTENTION! The supplied neoprene flat washer must be positioned between the bottom of the siren and the wall by passing through its central hole the duct that carries the electric cable inside the siren. The washer is used to prevent the possible formation of condensation inside the siren during the winter.

4. match the holes to fix the bottom of the siren to the wall, with 6mm wall plugs and screws for wall plugs (included);
5. connect the vox connection clamps to the KS-BUS of lares 4.0, see figure below;

TERMINALS DESCRIPTION

A B	KS-BUS	Ksenia BUS terminals
- +	BUS supply	Terminals of BUS supply 13.8V

6. place the battery and connect it using the fastons present at the end of the cable connected to the connector (J1) on vox PCBA (see also <u>"PCBA vox-C" page 7</u>);
7. close the undercover and the cover and screw on.
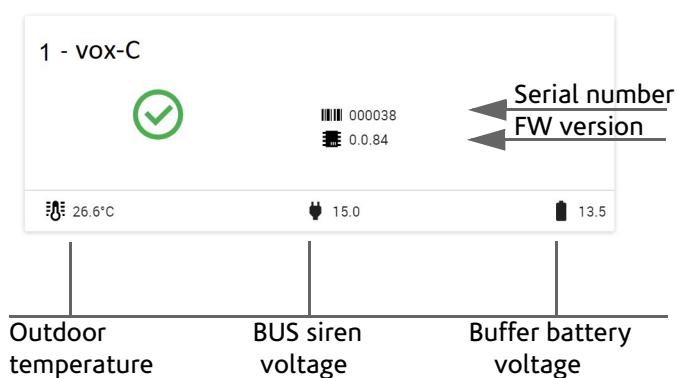
vox-C CONFIGURATION

BUS Peripherals configuration

1. Once the installation is over, connect to the control panel through the WEB "Installer" application and open BUS PERIPHERALS menu -> SIRENS -> vox-C, the real time section will show a yellow icon
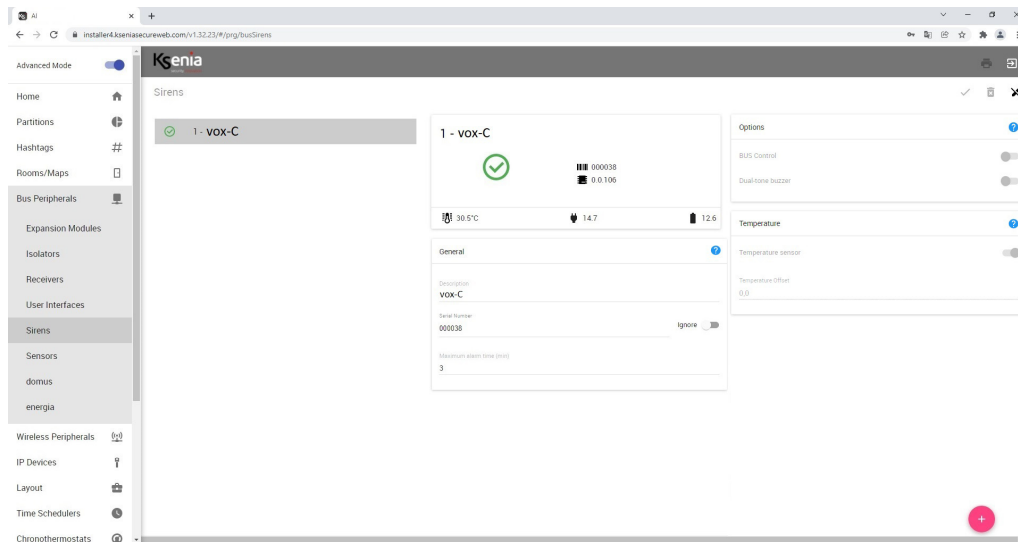
   ✅ because it is not registered in the system yet.
   Now, you have to enter the serial number printed on the siren label, save and apply the configuration: the **real time** will show a green icon, as shown in the following image.

1 - vox-C

✅

||||| 000038   ← Serial number
▦ 0.0.84   ← FW version

🌡 26.6°C   🔌 15.0   🔋 13.5

Outdoor temperature | BUS siren voltage | Buffer battery voltage

2. Enter the configuration option required in the same page, here below described:

Maximum alarm time (min) = You can set the maximum time to the activation of the acoustic signal. When the time expires, the siren will stop even if it does not receive the reset command from the control panel.

BUS Control: If enabled, in case of communication failure with the control panel for more then 10 seconds, the siren will play a sound and emit a luminous signal; the side LEDs of the siren flash synchronously and alternate with the flashing of the central LED, all orange.
In the event of a power cables cut, the siren will emit the acoustic and light signal immediately even if the option is not enabled.

Dual tone buzzer: if this option is enabled, the acoustic signalling is carried out by means of a sound with two distinct frequencies (bi-tonal), otherwise in a continuous "sweep" mode.

Temperature sensor: If disabled, the siren does not send the outdoor temperature to the control panel and the keypad will not show it (this is useful if there are two sirens, and one is exposed to the sun, making false the external temperature measurement). Note: also the keypad must be enabled to display the outdoor temperature.

Offset temperature: it is the offset that will be applied to the outdoor temperature detected by the sensor on board of the siren. It can be a value between -5°C and +5°C step of 0.1°C.

![Ksenia security innovation logo]

LED outputs configuration

From WEB "Installer" application, open SYSTEM -> OUTPUTS menu and configure the following options:
- SOUND AND LEDS
- SIDE LEDS

Find how to program them and the description of its functionality below.

- **SOUND AND LEDS**:
  When an alarm event occurs, this configuration triggers the sound (continuous or two-tones according to the configuration of the peripheral BUS) and the side LEDs flash synchronously and alternate with the flashing of the central LED, all orange.
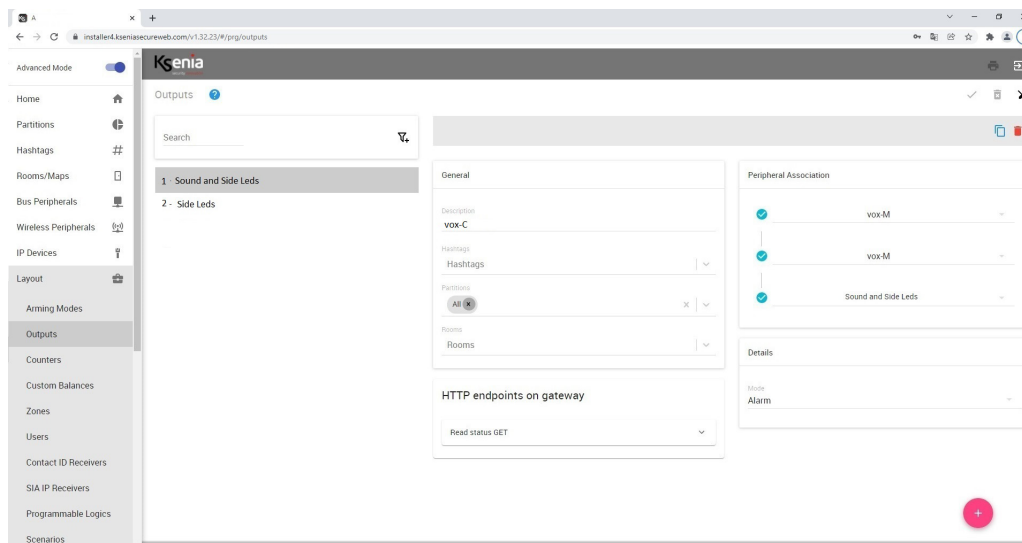
Alarm Mode = it is activated when the partition (or partitions) associated with it, triggers an alarm.

- **SIDE LEDS**
  This configuration triggers the LEDs flash orange synchronously.
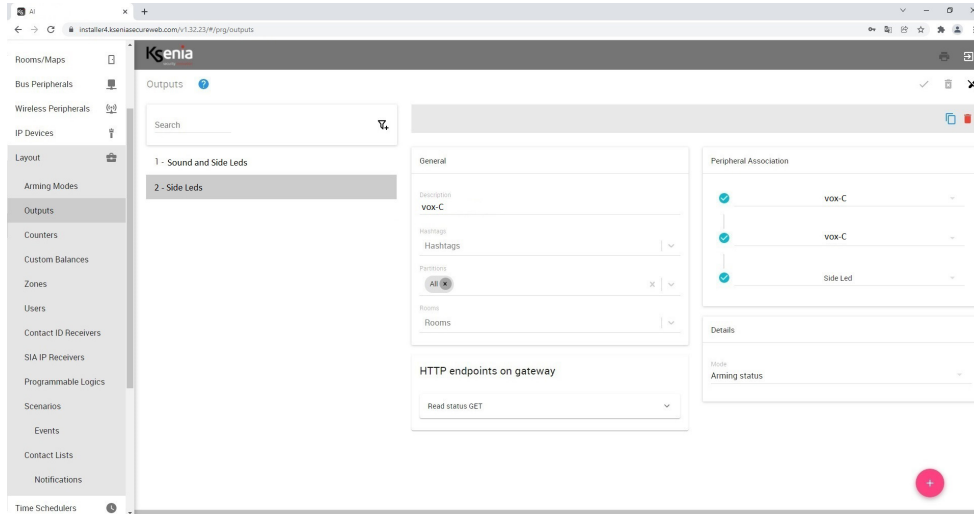
Arming status mode = it follows the arming status of the partition (or partitions) to which it is associated. If even only one partition, among all to which the siren belongs, is armed, the output is activated and vice versa.

QUANTITY DATA

lares 4.0 models	wls 96	16	40	40 wls	140 wls	644 wls
Maximum number of BUS sirens	1	6	24	24	40	64

Technical specification, appearance, functional and other product characteristics may change without notice.

COMPLIANCE

Europe - Rohs, CE

ENVIRONMENTAL CARE

vox sirens have been designed and manufactured with the following characteristics to reduce its environmental impact:
1. Halogen-free laminates and leads-free PCBA
2. Low current consumption
3. Packaging made mostly of recycled fibers and materials and materials obtained from renewable sources

Installation of these systems must be carried out strictly in accordance with the instructions described in this manual, and in compliance with the local laws and bylaws in force. These products have been designed and made with the highest standards of quality and performance adopted by Ksenia Security. Is recommended that the installed system should be completely tested at least once a month. Test procedures depends on the system configuration. Ask to the installer for the procedures to be followed.
Ksenia Security spa shall not be responsible for damage arising from improper installation or maintenance by unauthorized personnel.
The content of this guide can change without prior notice from KSENIA SECURITY.

Warning! Do not use an ordinary dustbin to dispose of this equipment.
Used electrical and electronic equipment must be treated separately, in accordance with the relative legislation which requires the proper treatment, recovery and recycling of used electrical and electronic equipment.
Following the implementation of directives in member states, private households within the EU may return their used electrical and electronic equipment to designated collection facilities free of charge. Local retailers may also accept used products free of charge if a similar product is purchased from them.*
If used electrical or electronic equipment has batteries or accumulators, these must be disposed of separately according to local provisions.
Correct disposal of this product guarantees it undergoes the necessary treatment, recovery and recycling. This prevents any potential negative effects on both the environment and public health which may arise through the inappropriate handling of waste.
*Please contact your local authority for further details.