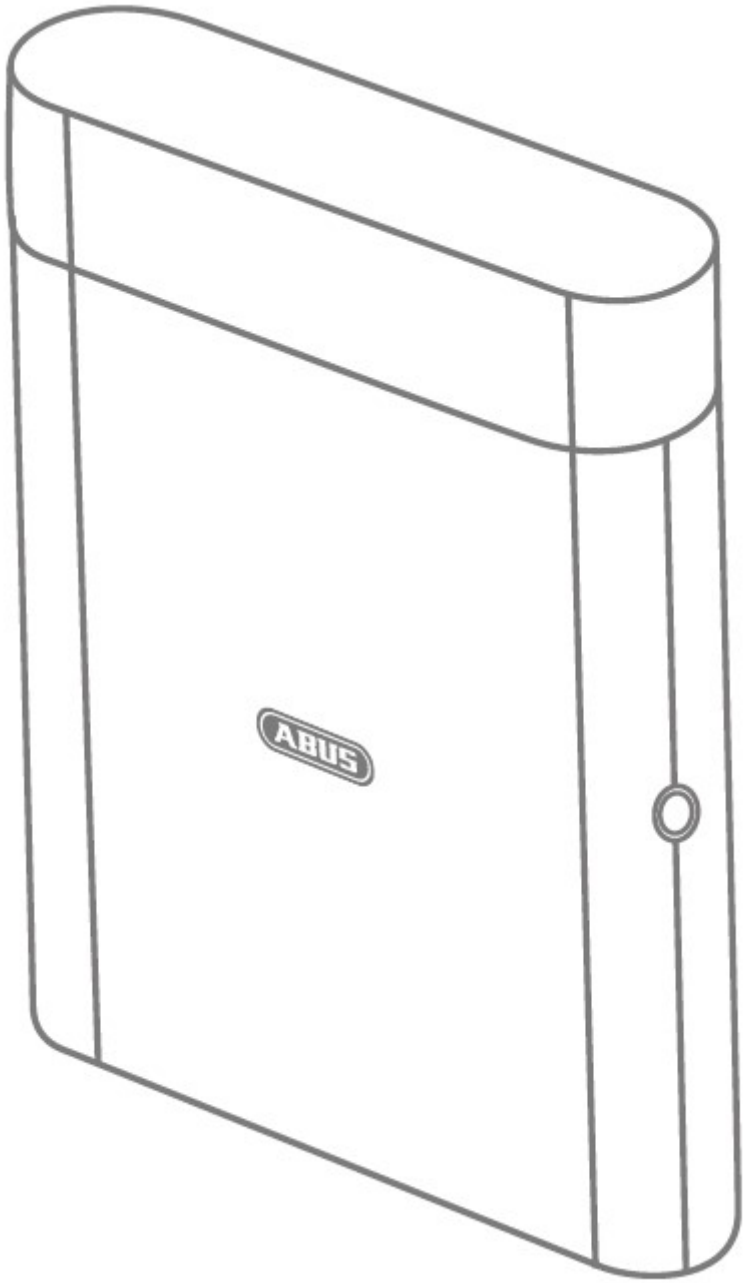
AZSG10001/AZSG10006/AZSG10011

ABUS Wired Outdoor Siren



EN

Installation instructions and user guide

Version 1.2

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Introduction

Information on user manual

Dear Customer,

Thank you for purchasing this product. This device is built with state-of-the-art technology.

These instructions contain important installation and operation information (as at 07/2016). Follow the directions and instructions in this user guide to ensure safe operation. Store this guide in a safe place for future reference. This guide constitutes part of the device. If you pass the device on to third parties, please remember to include this guide.

Intended use

Only use the device for the purpose for which it was built and designed. Any other use is considered unintended.

This product complies with current domestic and European regulations. Conformity has been proven, and all related certifications are available from the manufacturer on request.
To maintain this condition and to ensure safe operation, you as the user must pay attention to this user manual.Please contact our specialist dealers for any questions you may have.Further general information and information on product support can be found at www.abus.comon the general page or for dealers and installers, in the Partner portal.

Note	Please observe the notes and instructions in this user guide! If you do not follow these instructions, any guarantee claim is invalidated. No liability can be accepted for resulting damage. No part of the product may be changed or modified in any way. Please observe the local legal requirements. In some European countries, the use of alarms outdoors is prohibited or the maximum alarm duration is limited. Please consult your local authorities on this.
Caution and **Important**	When connecting the rechargeable battery in the sounder, the acoustic alarm may emit a loud sound. This may startle you. Make sure that you don’t lose your balance or drop the sounder.

Limitation of liability

Everything possible has been done to ensure that the content of these instructions is correct. However, neither the author nor ABUS Security-Center GmbH & Co. KG can be held liable for loss or damage caused by incorrect or improper installation and operation or failure to observe the safety instructions and warnings. No liability can be accepted for resulting damage. No part of the product may be changed or modified in any way. If you do not follow these instructions, your warranty claim becomes invalid.

Subject to technical modifications.

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Safety information

Explanation of symbols

The following symbols are used in this manual and on the device:

Symbol	Signal word	Meaning
	Caution	Indicates a risk of injury or health hazards.
	Caution	Indicates a risk of injury or health hazards caused by electrical voltage.
	Important	Indicates possible damage to the device/accessories.
	Note	Indicates important information.
		The EU Directive WEEE 2012/19/EC governs the proper recovery, treatment and recycling of used electronic devices. This symbol means that, in the interest of environmental protection, the device must be disposed of separately from household or industrial waste at the end of its lifespan in accordance with applicable local legal guidelines. Used devices can be disposed of at official recycling centres in your country. Obey local regulations when disposing of material. Further details on returns (also for non-EU countries) can be obtained from your local authority. Separate collection and recycling conserve natural resources and ensure that all the provisions for protecting health and the environment are observed when recycling the product.

Packaging

Caution	Keep packaging material and small parts away from children. There is a risk of suffocation.
	Remove all packaging material before using the device.

Accumulator warning information

Caution	An accumulator battery provides this device with backup power. To guarantee a long lifespan and avoid fire and injury, please note the following:
Caution	Do not dispose of the battery in household waste. Do not expose the battery to any direct heat source or sunlight and do not store in very high temperatures. The battery must not be burned. The battery must not come into contact with water. The battery must not be dismantled, pierced or otherwise damaged. The battery contacts must not be short-circuited. The battery must be kept out of the reach of small children.

Scope of delivery

- ABUS Wired Outdoor Siren
- Quick-start guide
- ABUS sticker
- Installation material

Technical data

Product name	ABUS Wired Outdoor Siren
Product description	Sounder
Item number	AZSG10001 (red), AZSG10006 (orange), AZSG10011 (blue)
Manufacturer	ABUS Security-Center GmbH & Co. KG
Environmental class	IV (EN 50131-1:2006 + A1:2009 Section 7)
Protection class, IP protection class	IP43
Operating temperature	-25 °C to +60 °C
Humidity, maximum	max. 95%
Housing material	Polycarbonate
Dimensions (W x H x D)	210 x 277 x 75 mm
Weight	1.035 kg
Security level	Grade 3 (EN 50131-1 + A1:2009 + A2:2017 + A3:2020)
Flashing frequency	Double flash @ approx. 1Hz
Sound pressure	100 dB(A) @ 1 m
Maximum duration of the acoustic alarm	15 minutes
Power supply type	Cable type Z (EN 50131-4)
Power consumption/energy consumption	Standby current including comfort LEDs 40 mA Siren sounding alarm 360 mA
Normal voltage	10V – 15V DC
Backup battery	Ni-MH 7.2 V 330 mAh

Standards for intrusion and panic button devices	EN 50131-1:2006+A1:2009 + A2:2017 + A3:2020 EN 50131-4:2009
EU Directives	R&TTE: 1999/5/EC EMC: 2004/108/EC RoHS: 2011/65/EC WEEE: 2012/19/EC EuP: 2005/32/EC Low Voltage: 2006/95/EC General Safety: 2001/95/EC Directive 2015/863/EC
General	This product must be installed by a qualified service engineer.

Features

General

This outdoor sounder is an outdoor combination alarm device with siren and flashing light for use with alarm panels. It serves as an optical and acoustic alarm. The sounder and alarm panel communicate via cableways, so fixed wiring is required between the two units. The ABUS Wired Outdoor Sounder is intended for wall installation.

Main features

- Simple installation
- 100 dB(A) sound pressure
- Comfort LEDs
- High-performance LED flashing light
- Integrated spirit level
- Hinged lid for easy installation
- Shock-resistant construction from polycarbonate
- Monitors battery voltage
- Tamper detection for front and rear sides
- Selectable off-switch timer

Note

When installing, ensure that the sounder is fixed out of easy reach (at least 3 m installation height). In addition, the sounder should be visible and audible from afar.

Incorrect or unclean installation work may lead to erroneous interpretation of signals. The consequences of which may include false alarms. The costs incurred by potential dispatches of rescue services, such as the fire service or police, must be borne by the operator of the system.

Device description – Sounder

1	Cover and lid fixing screw
2	Slot for backup battery
3	Mounting holes for wall installation
4	Spirit level
5	Tamper switch
6	Mounting hole for tamper mechanism
7	Acoustic alarm
8	Inner housing
9	Cable inlet

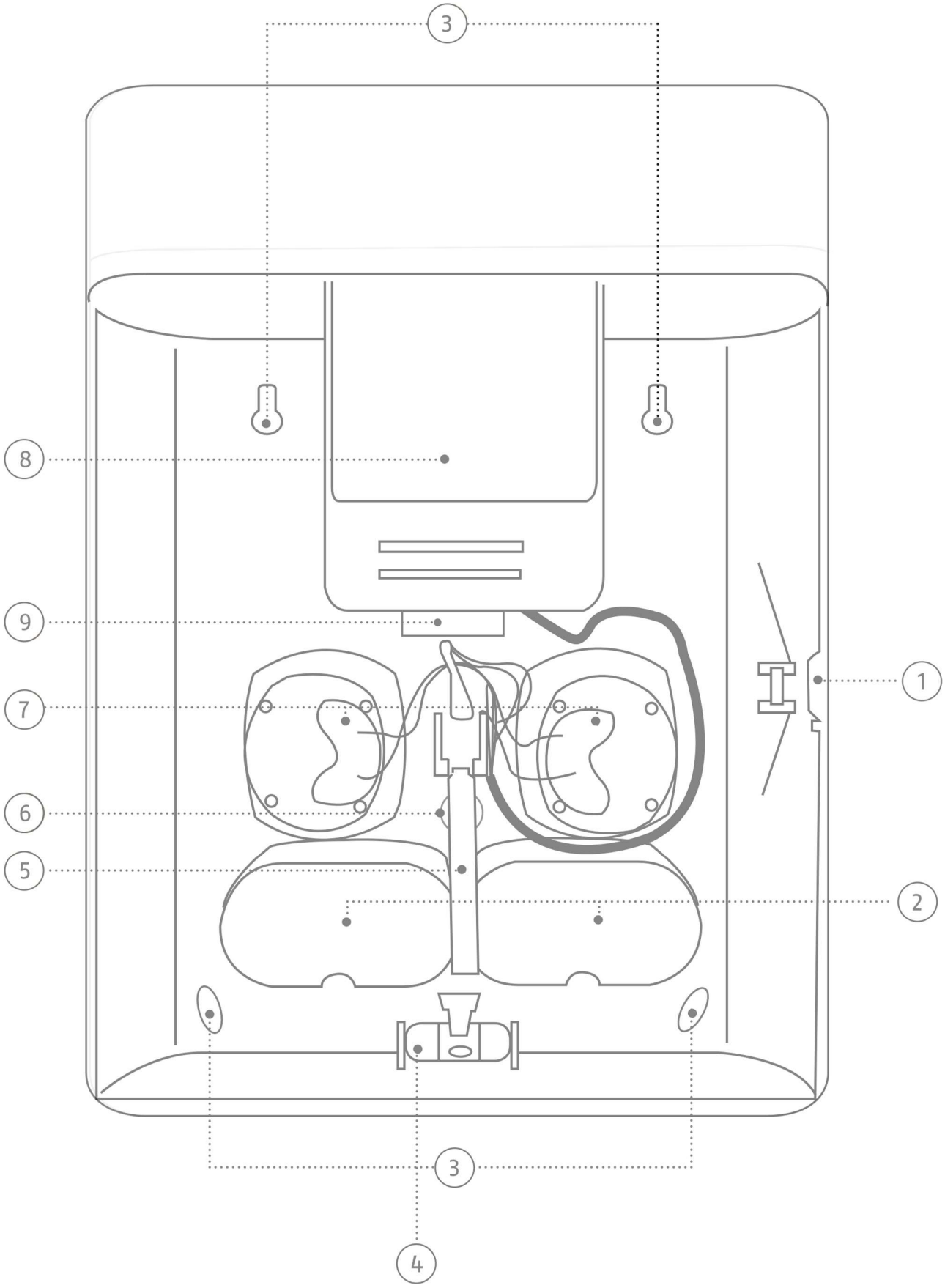

Figure 1: Overview of the sounder

Device description – inner housing

1	LEDs for visual alarm (flashing light)
2	Inner housing battery
3	Battery plug
4	Battery level indicator
5	Battery holder
6	Opening for wires
7	Terminal cover
8	Fixing bracket for terminal cover
9	Drop protection for terminal cover
10	LK1 jumper
11	Terminal block
12	Inner housing screws
13	LED display for supply voltage (comfort LED)
14	LED display for tamper switch (comfort LED)

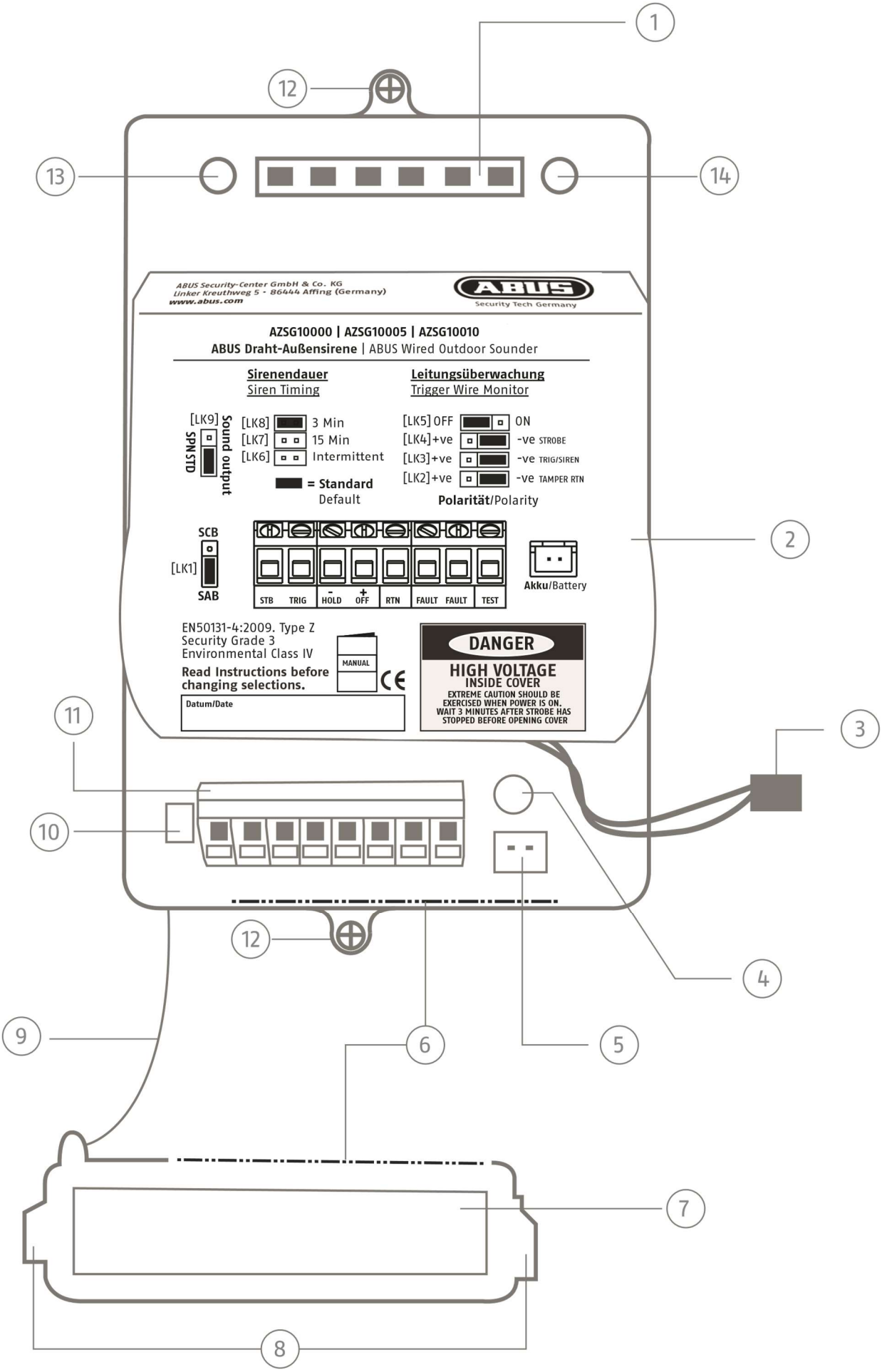

Figure 2: Overview of the inner housing

Installation

Installing the sounder

Step 1: Select installation location for the sounder

Select an installation location which:

- is inaccessible to intruders and vandals.
- is clearly visible, so that it acts as a strong deterrent.
- can be reached with cabling.

Step 2: Open the sounder's cover

- Open the cover for the lid-fixing screws on the right side (see Fig. 1).
- Remove the fixing screws and open the cover.

Step 3: Mount the sounder on the wall

Note	A pin serves as an anti-removal wall contact to activate the tamper switch on the inside of the sounder. To fit uneven walls, the length of this pin can be adjusted. To do this, turn the screw, which is in the pin, either in or out.

- Place the siren on the wall and align it vertically using the integrated spirit level. Mark the three fixing points.
- Drill the holes in the wall to fit the diameter of the anchor screws. Insert the anchor screws supplied, in the holes.
- Feed the cable provided in the inner housing through the cable inlet on the reverse side.
- Insert the screws supplied through the sounder's fixing holes. Turn the screws in the screw anchor. Do not tighten the screws yet.
- Again, vertically align the sounder using the spirit level. Now tighten the screws.

Step 4: Pre-configuration via jumper

- If you would like to change
  - the siren duration from the default value [3 min.], and/or
  - the circuit monitoring from the default values, and/or
  - you would like to set the volume differently to the default value, then:
- Slide the inner housing to the left, to release it from the catch.
- Now open the inner housing by undoing the screws at the top and bottom and set the values using the jumpers [LK2] to [LK9] as required.
- Close the inner housing again using both screws.
- Snap the housing back into the mount by sliding it to the right.
- If you wish to set the mode for the power supply, open the terminal block and set the jumper [LK1] accordingly.

Polarity:

+ve	Activated by positive signal, 12 V fitting.
-ve	Activated by negative signal, 0 V fitting.

Description of jumpers:

[LK1]	Select from SAB or SCB mode
[LK2]	Tamper notification with +ve or -ve polarity
[LK3]	Siren activation with +ve or -ve polarity
[LK4]	Flashing light activation with +ve or -ve polarity
[LK5]	Monitoring the signal for activating the siren and flashing light. Please note the following instructions for this function.
[LK6]	Cyclical siren duration
[LK7]	Siren duration of 15 minutes
[LK8]	Siren duration of three minutes
[LK9]	Select siren volume from STD = 100 dB(A) @ 1 m or SPN = 85 dB(A) @ 3 m

Step 5: Connecting the cable

- Strip the cable to sufficient length and remove insulation from the individual wires in order to connect these.
- Remove the cover over the screw terminal on the inner housing by pressing together the lateral terminals upwards and lifting up the cover.
- Then connect the individual wires to the respective screw terminal and feed the wires individually outwards through the openings provided in the inner housing.
- See the label on the cover of the inner housing for how to assign the terminal connectors. Every connector is marked on the sticker.

Description of the terminals:

STB	Signal from the alarm panel to activate the flashing light
TRIG	Signal from the alarm panel to activate the siren
- HOLD OFF	Permanent 0 V fitting from the alarm panel
+ HOLD OFF	Permanent 12 V fitting from the alarm panel
RTN	Tamper notification to the alarm panel
FAULT	Closed circuit, which opens in the case of fault (both fault terminals)
FAULT	Closed circuit, which opens in the case of fault (both fault terminals)
TEST	+ve signal from the alarm panel to activate routine self tests

Step 5: Connecting the battery

- Connect the plug of the already inserted battery (No 3 Fig. 2) to the battery holder (No 5 Fig. 2).

Step 6: Closing the sounder

- Ensure that the inner housing is sitting firmly in the catch in the middle of the housing.
- Close the inner housing with the terminal cover (No 7 Fig. 2).
- Snap shut the sounder lid and screw this in tightly with the cover fixing screw.
- Finally, affix the screw cover over the cover fixing screw.

Functions and settings:

General Operation

Installer Start-up

During the initial start-up, it is possible to plug in the battery without activating the sounder. This means that the sounder can be installed and connected in one process, so that you don’t have to go back to it again later when the supply voltage is applied.

Please note: this function is only available during the initial start-up, or if the sounder has been completely isolated by disconnecting the power supply and removing the battery.

Installer Mode

As soon as the supply voltage is applied, the device will test itself before switching to installer mode. This installer mode lasts five minutes. During this time, the sounder will emit an acoustic signal for three or 15 seconds (depending on which setting was selected), when it is configured. The visual signalling may also be triggered. This function ensures an initial test of the sounder’s connection without excessive noise nuisance. When this test phase has run, the sounder emits a short sound signal.

Battery level indicator

The sounder’s battery is constantly monitored, to see if it is able to take over the electricity supply, if the power supply is interrupted. During start-up, the battery status display may show an error for a few minutes until the battery has been sufficiently charged.

Error output

This output indicates a battery error. When an error is detected, the output opens the contact (it is an NC output). When self-test is started, this error output is also opened and remains open pending if there is a fault. If there is no error, the contact closes again. The output also opens the circuit, if the device identifies that a conductor for activation is interrupted (only if circuit monitoring [LK5] is activated).

Test input

A positive signal from the alarm panel triggers the sounder to self test.

Settings

Note: the jumpers [LK2] – [LK9] can only be reached if the inner housing has been opened with two screws (Fig. 2 No 12). [LK1] (Fig. 2 No 10) can be reached by opening the terminal cover.
The terminals can all be reached by opening the terminal cover.

[LK1] SAB/SCB

SAB (default setting): If activated, the whole power supply is applied to operate the sounder from the alarm panel
SCB:If activated, the whole power supply to operate the sounder is fed through the internal battery

[LK2] TAMPER RTN

This jumper allows you to select between a negative –ve (default setting) or a positive +ve notification via the tamper contact.

[LK3] TRIG/SIREN

This jumper allows you to select the type of trigger for the acoustic alarm. –ve (default setting) or +ve.

[LK4] STROBE

This jumper allows you to select the type of trigger for the visual alarm (flashing light). –ve (default setting) or +ve.

[LK5] Circuit monitoring

Note

This setting is mandatory for EN Grade 3 installations.

When it is activated, the device monitors the integrity of the connection cables for the acoustic alarm, and the visual alarm by evaluating resistor values. These resistors are applied on the opposing signal, and are needed to trigger the acoustic or visual alarm.

Example: If the sounder is controlled by a negative signal –ve (default setting), the monitoring resistor is connected between the positive supply voltage and the signal wire in the alarm panel. If the signal wire for the acoustic alarm is then interrupted or removed, the error output opens the circuit. If the visual alarm's control is interrupted or removed, the flashing light starts. The error output is not opened in this case.

Note

Attaching the resistors in the device yourself, does not comply with the requirements of EN Grade 3.

[LK6] Intermittent

If selected, the siren sounds for a maximum of three passes.
50 sec. ON, 40 sec. OFF, 50 sec. ON, 40 sec. OFF, 50 sec. ON and then stops. (Times approximate)

[LK7] 15 min.

If selected, the siren sounds for a maximum of 15 minutes.

[LK8] 3 min. (default setting)

If selected, the siren sounds for a maximum of 3 minutes.

[LK9] Sound Output

Allows the choice between 100 dB (A) @ 1 m (default setting) and 85 dB (A) @ 3 m.

Operation of the comfort LEDs

In normal operation, the comfort LEDs are not illuminated when the sounder is connected to the power supply, to visually display that the system is operational.

If the tamper contact is opened and/or the power supply is interrupted, this is indicated by the respective LED (No 13 + 14 Fig. 2) flashing.

Maintenance

Caution	**Be prepared, that the alarm will be activated as soon as you open the sounder's cover. Make sure that any loud sounds emitted, do not startle you, causing you to fall off the ladder.**

- Test, during routine maintenance, that the sounder works properly.
- Check the tamper contact, check for signs of seeping water or insects and clean the device as required.
- Put the terminal cover back on, close the lid, tighten the cover fixing screws and close the screw's covers.
- Test the system.

Diagnosis

Symptom	Cause	Remedial action
LED display for supply voltage (No 13 Fig. 2) flashes once every second.	Supply voltage not available.	Check supply voltage.
LED display for tamper switch (No 14 Fig. 2) flashes once every second.	Housing cover is open.	Close housing cover.
Red battery level indicator (No 4 Fig. 2) is not illuminated.	Faulty, damaged or deeply discharged battery.	Give the battery time to charge. Check the battery's status and replace if necessary.
Neither comfort LED (No 13 + No 14 Fig. 2) is illuminated	Normal operation status.	No action necessary.

Warranty

Note

ABUS products are designed and manufactured with the greatest care and tested according to the applicable regulations.

The warranty only covers defects caused by material or manufacturing errors at the time of sale. If there are demonstrable material or manufacturing errors, the module will be repaired or replaced at the guarantor's discretion.

In such cases, the warranty ends when the original warranty period of two years expires. All further claims are expressly rejected.

ABUS will not be held liable for defects and damage caused by external influences (e.g. transport, use of force, operating errors), inappropriate use, normal wear and tear or failure to observe the instructions in this manual.

In the event of a warranty claim, the original receipt with the date of purchase and a short written description of the problem must be supplied with the product.

If you discover a defect on your wired outdoor sounder which existed at the time of purchase, contact your dealer directly within the first two years following purchase.

Disposal

Dispose of the device in accordance with EU Directive 2012/19/EC – WEEE (Waste Electrical and Electronic Equipment). If you have any questions, please contact the municipal authority responsible for disposal. You can get information on collection points for waste equipment from your local authority, from local waste disposal companies or your dealer, for example.

Declaration of conformity

ABUS Security-Center GmbH & Co. KG hereby declares that the device with item number AZSG100XX complies with the essential requirements and other relevant provisions of Directives 2011/65/EC, 2014/30/EC. The declaration of conformity can be obtained from the following address:

ABUS Security-Center GmbH & Co. KG
Linker Kreuthweg 5
86444 Affing
GERMANY

Notes