RISC●
G R O U P

Indoor Wireless Sounder

Model: WL S42

Installation and Programming Instructions

Table of Contents

Introduction

RISCO Group's two-way indoor wireless sounder is designed to extend the signaling capabilities of the Risco Group's wireless systems, within the protected area. The wireless sounder offers an easy and flexible solution for quick installation. The sounder is powered by its own batteries and communicate wirelessly with the security panel using 868MHz or 433MHz frequency band.

Operational Functions

Alarm / Tamper Indication

Upon an alarm condition, the sounder will be activated for a period of time defined by the system (***Bell Time Out*** parameter).
The maximum time that the sound will be activated is 5 minutes.

Low Battery Indication

Upon a low battery condition a trouble indication is sent to the panel.
There are 2 types of low battery indications:

✦ Radio low battery
✦ Speaker low battery

Supervision

Each sounder can be defined to be supervised by the panel. The system generates a local trouble signal identifying the sounder which its signal is not received during a predefined time, followed by a report to the Central Station (if defined).

Pre Alarm Indication

When an entry time starts, the system transmits a pre-alarm signal to the sounder. If the system is disarmed before the entry delay time expires, a cancellation signal is sent to the sounder.
If the sounder does not receive a canceling signal within the entry delay time, the sounder will be activated.

Sounder Testing

Once placing all batteries in place, the sounder performs a functional self test indicated by a squawk sound. Testing the sounder can also be performed remotely by the system keypad, or, using the remote configuration software.

Mounting the Sounder

1. Release the mounting bracket captive locking screw (Fig 1).
2. Turn the mounting bracket counterclockwise and separate it from the sounder.
3. Hold the mounting bracket against the wall (direction arrow pointing up) and mark the locations of the mounting holes (Fig. 2). Drill the desired mounting holes and insert screw anchors (if required).

> **NOTE:**
> Do not drill through the mounting bracket.

4. Mount the bracket to the wall using the supplied screws.
5. Insert the supplied batteries into the battery chambers (speaker and radio) paying attention to the polarity (Fig 3).
6. Perform communication set up with the control panel (see Sounder/Receiver Communication Set up paragraph).
7. Once communication setup is completed, mount the sounder to the mounting bracket by turning the sounder clockwise. Pay attention to the tamper switch.
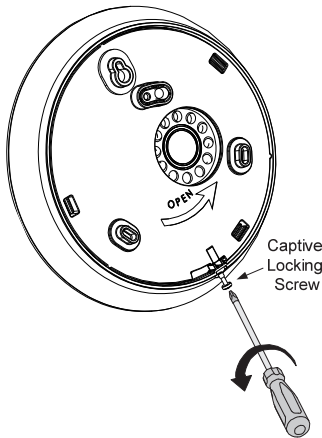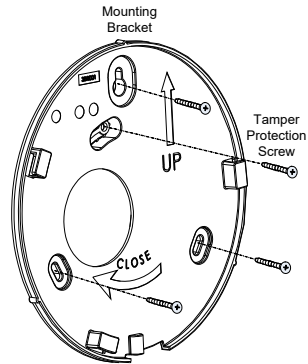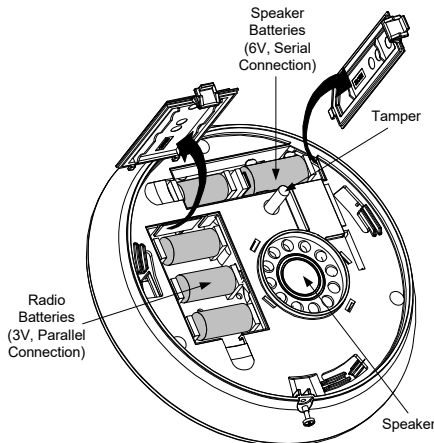8. Secure the captive locking screw.

Fig. 1

Fig. 2

Fig. 3

Programming the sounder

Programming the wireless sounder consists of the following 3 steps:
1. Setting communication between the receiver and the sounder
2. Setting sounder parameters
3. Testing the sounder

Step 1: Sounder/Receiver Communication Set up

The sounder must identify itself to the system's receiver by writing its ID into the System. Perform according to the following steps:
1. Set the receiver to the Write mode.

> **NOTE:**
> **WisDom:** Main Engineer menu: 9) Devices > 2)Sounder > 1) Allocation > Select sounder> Choose INWS1
> **Agility:** Main Engineer menu: 2) Radio Devices > 1) Allocation > 1) RF Allocation
> **LightSYS (V2.40 and above):** Main Engineer menu: 7) Install > 2) WL Device > 2) Allocation > 1) By RF > 4) Sounder

2. Select the sounder's ID.
3. Unpack the supplied batteries
4. Insert two speaker batteries into the batteries chamber (Fig. 3).
5. Insert three Radio batteries into the batteries chamber.
6. After a squawk is heard you have 10 seconds to press on the tamper switch for at least 3 seconds. If the sounder is successfully recognized, the system will sound a confirmation beep and the sounder will initiate a second squawk sound.
7. Repeat the process for other sounders in the system.

Step 2: Setting the Sounder Parameters

Each sounder can be defined with different sets of parameters. The following table describes the list of parameters of the sounder.

> **NOTE:**
> For the specific programming location of each parameter refer to the system manuals.

Adjusting the Volume

Defines the sounder sound volume for the following system modes
  - ➢ **Exit / Entry**: The sound produced during Exit/Entry time (Default: 0)
  - ➢ **Alarm**: The sound produced during alarm (Default: 9)
  - ➢ **Squawk**: The sound produced during squawk sounds (Default: 9)

The sound volume range is between 0 (silent) to 5 (maximum volume).

Muting Tamper

This feature disables a tamper alarm from the sounder and it is recommended to be used when replacing sounder's batteries.

NOTES:
1. An ongoing tamper alarm will not be disabled.
2. **WisDom:** This feature is controlled under the Engineer Menu (Quick key [9][2][5]). Tamper alarm will be disabled during the current installation programming period.
3. **Agility:** Grandmaster Code/User Menu > Activities > Advanced > Service Mode (Agility 3 only)
   The tamper alarm will be disabled for the time programmed in the Mode Service timer.
4. **LightSYS (V2.40 and above):** Grandmaster Code/User Menu > Activities > Advanced > Service Mode
   The tamper alarm will be disabled for the time programmed in the Mode Service timer.

Setting Supervision Time

Specifies how often the system generates a supervision request to the sounder.
If any of the sounders does not respond to the request at least once, during the receiver supervision time, the system will regard the accessory as lost.

NOTE:
The receiver supervision time should be higher than the sounder supervision time in order to eliminate false lost event.

Range: 00-255 minutes

Default: 58 minutes

NOTE:
WisDom: Engineer menu: 1) System > 1) Timers > 9) Accessory supervision time
Agility: Engineer menu: 1) System > 1) Timers > TX supervision
LightSYS (V2.40 and above): Engineer menu: 1) System > 1) Timers > 6) Wireless > 3) TX supervision

Pre Alarm indication

This wireless sounder incorporates a pre - alarm feature that enhances the security of the system, by producing a local alarm in case of sabotage.
If defined, the system sends a pre-alarm signal to the sounder at the beginning of the entry delay. If the sounder does not receive a cancellation signal from the system at the end of the entry time, the sounder goes into alarm mode.

NOTE:
WisDom (Ver 4.25): Engineer menu Quick key 1) System > 2)Controls > 44) Pre alarm
Agility: Engineer menu [1][2] > Advanced > Sounder Pre alarm
LightSYS (V2.40 and above): Engineer menu 1) System > 2) Controls > 7) Device > 5) Sounder Pre alarm

Step 3: Testing the Sounder

Communication Test

The sounder communication test performs a communication test between the sounder receiver and the system.

➢ To perform communication test

1. Access to communication test option

> **NOTE:**
> **WisDom**: Engineer menu > 9) Devices > 2) Sounders > 3) Communication test
> **Agility**: Engineer menu > 2) Testing > 5) Sounder > 1) Communication test
> **LightSYS (V2.40 and above):** Installer Code/User menu: Maintenance > Wireless Test >Wireless Sounders > Comm. Test

2. The value displayed indicates the last signal received from the siren (In the WisDom it indicates the signal received during the test). A number between 00-99 indicates the strength of the communication signal between the system and the sounder.

> **NOTE:**
> For successful communication, the strength of the signal should be higher that the sounder receiver noise threshold level.
> **WisDom:** Engineer menu quick key [9][2][4], Agility: Engineer menu > 2)Testing >1)Main unit > 1)Calibration).
> **Agility:** Engineer menu: 2) Testing > 1) Main unit > 1) Calibration
> **LightSYS (V2.40 and above):** Engineer menu: 7) Install > 2) WL Device > 1) RX Calibration

Diagnostics

The Diagnostics menu enables to test parameters reflecting the operation of the sounder:

✦ **Speaker batteries voltage**: Tests the selected sounder's speaker batteries voltage

✦ **Radio batteries voltage:** Tests the selected sounder's radio's batteries voltage

✦ **Sounder version:** Displays information regarding the sounder's version

> **NOTE:**
> **WisDom:** User menu: 4) Maintenance > 7) Sounders > 1) Diagnostics
> **Agility:** Engineer menu > 2) Testing> 5) Sounder>2) Battery test > 3)Version
> **LightSYS (V2.40 and above) Battery Test:** Installer Code/User menu: Maintenance > WL Test > WL Sounders > Battery test
> **LightSYS (V2.40 and above) Sounder Version:** Installer Code/User menu: Maintenance. > Diagnostics > Sounders > Select Sounder >Version
> The diagnostic features can be also performed from Upload/Download software, locally or remotely

✦ **Sounder Calibration:** Displays information regarding the noise level around the sounder.

> **NOTE:**
> **WisDom:** Engineer menu quick key: [9][2][4]
> **Agility**: Engineer menu: 2) Testing > 5) Sounder > 4) Noise level > 1) View > 2) Calibrate
> **LightSYS (V2.40 and above):** Installer Code/User menu: Maintenance > Diagnostics > Sounders > Select Sounder > Calibration

Replacing Batteries

1. Before opening the sounder it is advised to silence the tamper alarm using the Tamper Mute option (see the *Muting Tamper* paragraph on page 6).
2. Unlock the captive screw and remove the sounder from the mounting bracket by turning it counterclockwise.
3. Remove the old batteries from the metal clips and replace with new ones. Pay attention to the polarity.
4. Attach the sounder to the bracket and fasten the cover captive locking screw.

NOTES:
Dispose of old batteries according to your local regulations.
Risk of explosion if battery replaced by an incorrect type.

Technical Information

Electrical

Power Supply	5 X CR123, 3V Lithium Battery (3 batteries for the Radio Transceiver, 2 batteries for the Speaker (see Fig. 3 on page 4)
Battery life	3 years (typical)
Speaker sound level	105 dB @ 1 meters (adjustable)
Size (Ø&D)	Ø183 x 51 mm (7.2 x 2 inch)
Weight (batteries not included)	0.34Kg (12 oz)

Radio

Radio type	Two Way Narrow band
Frequency	868 MHz or 433MHz
Range up to:	150m (492') Line of sight
Supervision	Yes
Modulation Type	ASK

Environmental

Temperature	- 10°C to 55°C (14°F to 131°F)
IP Rating	IP 31, IK 06
Environmental Class	Class II

Standards

EN50131-4, Grade 2 Environmental Class II
EN50131-6 Type C

Ordering Information

Part Number	Description
RWS42043300B	2-Way Indoor Wireless Sounder, 433 MHz
RWS42086800B	2-Way Indoor Wireless Sounder, 868.65 MHz

Specifications are subject to change without prior notice. Should any questions arise please contact your supplier.

RED Compliance Statement

Hereby, RISCO Group declares that this equipment is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

For the CE Declaration of Conformity please refer to our website: www.riscogroup.com.

CE

Standard Limited Product Warranty ("Limited Warranty")

RISCO Ltd. ("**RISCO**") guarantee RISCO's hardware products ("**Products**") to be free from defects in materials and workmanship when used and stored under normal conditions and in accordance with the instructions for use supplied by RISCO, for a period of (i) 24 months from the date of delivery of the Product (the "**Warranty Period**"). This Limited Warranty covers the Product only within the country where the Product was originally purchased and only covers Products purchased as new.

Contact with customers only. This Limited Warranty is solely for the benefit of customers who purchased the Products directly from RISCO or from an authorized distributor of RISCO. RISCO does not warrant the Product to consumers and nothing in this Warranty obligates RISCO to accept Product returns directly from end users who purchased the Products for their own use from RISCO's customer or from any installer of RISCO, or otherwise provide warranty or other services to any such end user directly. RISCO's authorized distributor or installer shall handle all interactions with its end users in connection with this Limited Warranty. RISCO's authorized distributor or installer shall make no warranties, representations, guarantees or statements to its end users or other third parties that suggest that RISCO has any warranty or service obligation to, or any contractual privy with, any recipient of a Product.

Remedies. In the event that a material defect in a Product is discovered and reported to RISCO during the Warranty Period, RISCO shall accept return of the defective Product in accordance with the below RMA procedure and, at its option, either (i) repair or have repaired the defective Product, or (ii) provide a replacement product to the customer.

Return Material Authorization. In the event that you need to return your Product for repair or replacement, RISCO will provide you with a Return Merchandise Authorization Number (RMA#) as well as return instructions. Do not return your Product without prior approval from RISCO. Any Product returned without a valid, unique RMA# will be refused and returned to the sender at the sender's expense. The returned Product must be accompanied with a detailed description of the defect discovered ("**Defect Description**") and must otherwise follow RISCO's then-current RMA procedure published in RISCO's website at www.riscogroup.com in connection with any such return. If RISCO determines in its reasonable discretion that any Product returned by customer conforms to the applicable warranty ("**Non-Defective Product**"), RISCO will notify the customer of such determination and will return the applicable Product to customer at customer's expense. In addition, RISCO may propose and assess customer a charge for testing and examination of Non-Defective Product.

Entire Liability. The repair or replacement of Products in accordance with this Limited Warranty shall be RISCO's entire liability and customer's sole and exclusive remedy in case a material defect in a Product is discovered and reported as required herein. RISCO's obligation and this Limited Warranty are contingent upon the full payment by customer for such Product and upon a proven weekly testing and examination of the Product functionality.

Limitations. This Limited Warranty is the only warranty made by RISCO with respect to the Products. The warranty is not transferable to any third party. To the maximum extent permitted by applicable law, this Limited Warranty shall not apply and will be void if: (i) the conditions set forth above are not met (including, but not limited to, full payment by customer for the Product and a proven weekly testing and examination of the Product functionality); (ii) if the Products or any part or component thereof: (a) have been subjected to improper operation or installation; (b) have been subject to neglect, abuse, willful damage, abnormal working conditions, failure to follow RISCO's instructions (whether oral or in writing); (c) have been misused, altered, modified or repaired

without RISCO's written approval or combined with, or installed on products, or equipment of the customer or of any third party; (d) have been damaged by any factor beyond RISCO's reasonable control such as, but not limited to, power failure, electric power surges, or unsuitable third party components and the interaction of software therewith or (e) any failure or delay in the performance of the Product attributable to any means of communication provided by any third party service provider, including, but not limited to, GSM interruptions, lack of or internet outage and/or telephony failure. BATTERIES ARE EXPLICITLY EXCLUDED FROM THE WARRANTY AND RISCO SHALL NOT BE HELD RESPONSIBLE OR LIABLE IN RELATION THERETO, AND THE ONLY WARRANTY APPLICABLE THERETO, IF ANY, IS THE BATTERY MANUFACTURER'S WARRANTY. RISCO does not install or integrate the Product in the end user's security system and is therefore not responsible for and cannot guarantee the performance of the end user's security system which uses the Product or which the Product is a component of.

This Limited Warranty applies only to Products manufactured by or for RISCO. Further, this Limited Warranty does not apply to any software (including operating system) added to or provided with the Products or any third-party software, even if packaged or sold with the RISCO Product. Manufacturers, suppliers, or third parties other than RISCO may provide their own warranties, but RISCO, to the extent permitted by law and except as otherwise specifically set forth herein, provides its Products "AS IS". Software and applications distributed or made available by RISCO in conjunction with the Product (with or without the RISCO brand), including, but not limited to system software, as well as P2P services or any other service made available by RISCO in relation to the Product, are not covered under this Limited Warranty. Refer to the Terms of Service at: https://riscocloud.com/ELAS/WebUI/UserLogin/License for details of your rights and obligations with respect to the use of such applications, software or any service. RISCO does not represent that the Product may not be compromised or circumvented; that the Product will prevent any personal injury or property loss by burglary, robbery, fire or otherwise, or that the Product will in all cases provide adequate warning or protection. A properly installed and maintained alarm may only reduce the risk of a burglary, robbery or fire without warning, but it is not insurance or a guarantee that such will not occur or will not cause or lead to personal injury or property loss. CONSEQUENTLY, RISCO SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE OR OTHER LOSS BASED ON ANY CLAIM AT ALL INCLUDING A CLAIM THAT THE PRODUCT FAILED TO GIVE WARNING.

EXCEPT FOR THE WARRANTIES SET FORTH HEREIN, RISCO AND ITS LICENSORS HEREBY DISCLAIM ALL EXPRESS, IMPLIED OR STATUTORY, REPRESENTATIONS, WARRANTIES, GUARANTEES, AND CONDITIONS WITH REGARD TO THE PRODUCTS, INCLUDING BUT NOT LIMITED TO ANY REPRESENTATIONS, WARRANTIES, GUARANTEES, AND CONDITIONS OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND WARRANTIES AGAINST HIDDEN OR LATENT DEFECTS, TO THE EXTENT PERMITTED BY LAW. WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, RISCO AND ITS LICENSORS DO NOT REPRESENT OR WARRANT THAT: (I) THE OPERATION OR USE OF THE PRODUCT WILL BE TIMELY, SECURE, UNINTERRUPTED OR ERROR-FREE; (ii) THAT ANY FILES, CONTENT OR INFORMATION OF ANY KIND THAT MAY BE ACCESSED THROUGH THE PRODUCT SHALL REMAIN SECURED OR NON DAMAGED. CUSTOMER ACKNOWLEDGES THAT NEITHER RISCO NOR ITS LICENSORS CONTROL THE TRANSFER OF DATA OVER COMMUNICATIONS FACILITIES, INCLUDING THE INTERNET, GSM OR OTHER MEANS OF COMMUNICATIONS AND THAT RISCO'S PRODUCTS, MAY BE SUBJECT TO LIMITATIONS, DELAYS, AND OTHER PROBLEMS INHERENT IN THE USE OF SUCH MEANS OF COMMUNICATIONS. RISCO IS NOT RESPONSIBLE FOR ANY DELAYS, DELIVERY FAILURES, OR OTHER DAMAGE RESULTING FROM SUCH PROBLEMS. RISCO WARRANTS THAT ITS PRODUCTS DO NOT, TO THE BEST OF ITS KNOWLEDGE, INFRINGE UPON ANY PATENT, COPYRIGHT, TRADEMARK, TRADE SECRET OR OTHER INTELLECTUAL PROPERTY RIGHT IN ANY EVENT RISCO SHALL NOT BE LIABLE FOR ANY AMOUNTS REPRESENTING LOST REVENUES OR PROFITS, PUNITIVE DAMAGES, OR FOR ANY OTHER INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF THEY WERE FORESEEABLE OR RISCO HAS BEEN INFORMED OF THEIR POTENTIAL.

This product should be tested at least once a week.

Contacting RISCO Group

RISCO Group is committed to customer service and product support. You can contact us through our website www.riscogroup.com or as follows:

United Kingdom

Tel: +44-161-655-5500

technical@riscogroup.co.uk

Belgium

Tel: +32-2522-7622

support-be@riscogroup.com

Italy

Tel: +39-02-66590054

support@riscogroup.it

USA

Tel: +305-592-3820

support@riscogroupusa.com

Spain

Tel: +34-91-490-2133

support-es@riscogroup.com

China

Tel: +86-21-52-39-0066

support-cn@riscogroup.com

France

Tel: +33-164-73-28-50

support-fr@riscogroup.com

Israel

Tel: +972-3-963-7777

support@riscogroup.com

CE

5IN2656 B