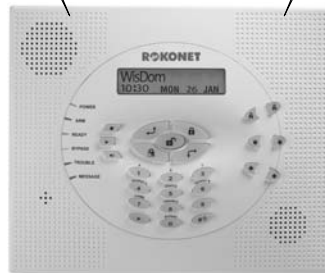


Wireless Sounder

External Sounder



Internal Sounder



Installation Instructions

(Programming for WisDom Software Version 3.xx)

Table Of Contents

Introduction	3
Operational Functions	3
Alarm / Tamper Indication	3
Low Battery Indication	3
Supervision	3
Pre Alarm Indication	3
Self Testing	3
Installation LED Indication	3
Installation	4
Mounting the External Sounder	4
Mounting the Internal Sounder	6
WisDom Programming Instructions	7
Installer Programming Menu	7
[9][2][1] Siren: Allocation	7
[9][2][2] Siren: Parameters	8
[9][2][3] Siren: Communication Test	9
[9][2][4] Siren Receiver Calibration	10
[1][1][9] Siren Supervision Time	10
[1][2][36] Siren Pre Alarm Feature	11
[6][2][6][4] Siren Report Codes	11
Event Log Messages	12
User Programming Menu	13
Diagnostics	13
Siren Version	13
Replacing Batteries	14
Technical Information	14
Electrical	14
Radio	14
Environmental	14
Ordering Part Numbers	15

Introduction

Rokonet's two-way wireless sounders are designed to extend the signaling capabilities of the WisDom wireless system within the protected area. The wireless sounders offer an easy and flexible solution for quick installations. The sounders are powered by their own batteries and communicate wirelessly with the security panel using 868MHz or 433MHz frequency band. Up to 3 wireless sounders (external or internal) can be assigned to a WisDom.

* Sounder and siren are used interchangeably in this document.

Operational Functions

Alarm / Tamper Indication

Upon an alarm condition, the sounder sound will be activated for a period of time defined by the WisDom security panel (the 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 WisDom generates a local trouble signal identifying the sounder which its signal is not received during a predefined time, followed by a report to the MS (if defined).

Pre Alarm Indication

When an entry time starts, the WisDom 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.

NOTE:

This feature is programmable. For more information please refer to page 11.

Self Testing

Upon pressing on the reset switch located on the PCB, the sounder performs a functional self test. The strobe flashes and a squawk will sound.

Remote testing can be performed from the WisDom keypad or using the Upload/Download software.

Installation LED Indication

The sounder incorporate two LEDs located on the PCB. These LEDs are enabled when the tamper is open and 10 minutes after the tamper is closed.

Red Only: Indicates transmission time

Yellow Only: Indicates low battery

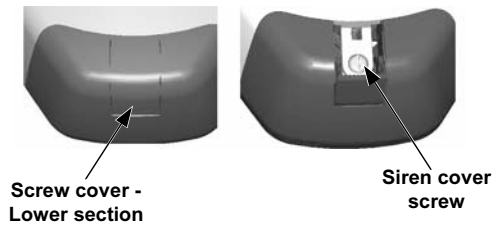
Red + Yellow (3 seconds): Confirmation of successful learning mode.

Installation

Use the following instructions to mount the external and internal wireless sounders.

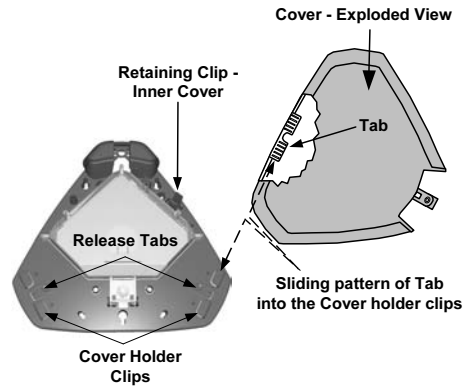
Mounting the External Sounder

1) Open the screw cover by applying thumb pressure on the screw cover lower part. When raised, push outwards. Once you have gained access to the cover screw, open screw and lift the cover away until cleared from the back plate.

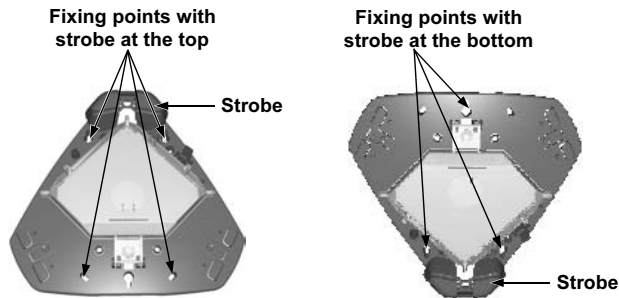


2) Once the cover has been removed it may be slid into one of the Cover Holder Clips. This is done by placing the cover next to the cover holding clips and then sliding it into place. To release cover, press the release tab and slide cover out.

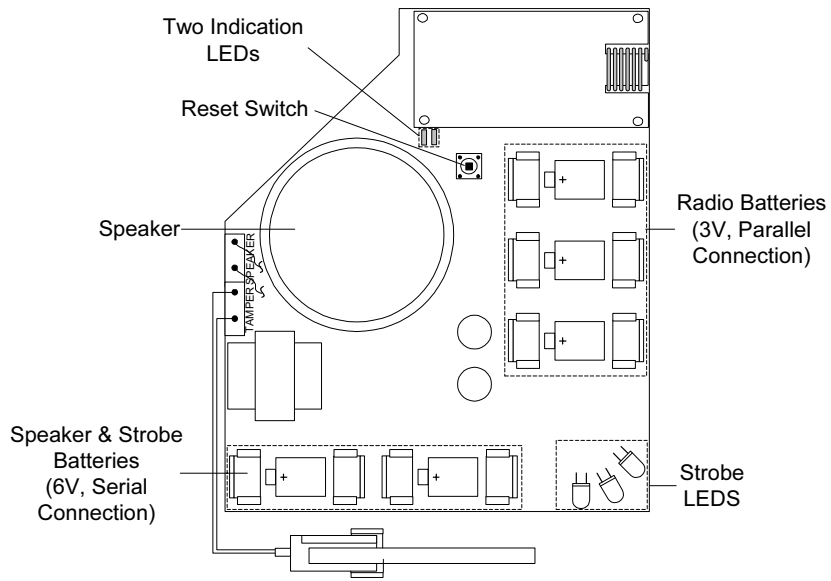
3) To reach the PCB release the inner cover and lift the cover until it locks in the raised position.



4) Position the sounder base plate against the wall and mark the securing holes according to the strobe required position. The unit should be mounted to the wall using at least three 2" No 10 screws and suitable wall anchors.



- 5) Insert the supplied batteries in the metal clips according to the polarity.
- 6) The sounder is ready for communication set up with the WisDom.
- 7) Once the communication set up is completed, close the inner cover and reattach the outer cover.



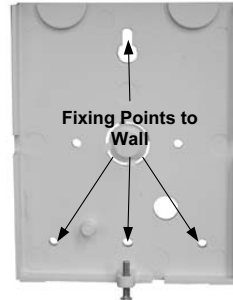
External Sounder - PCB Diagram

Mounting the Internal Sounder

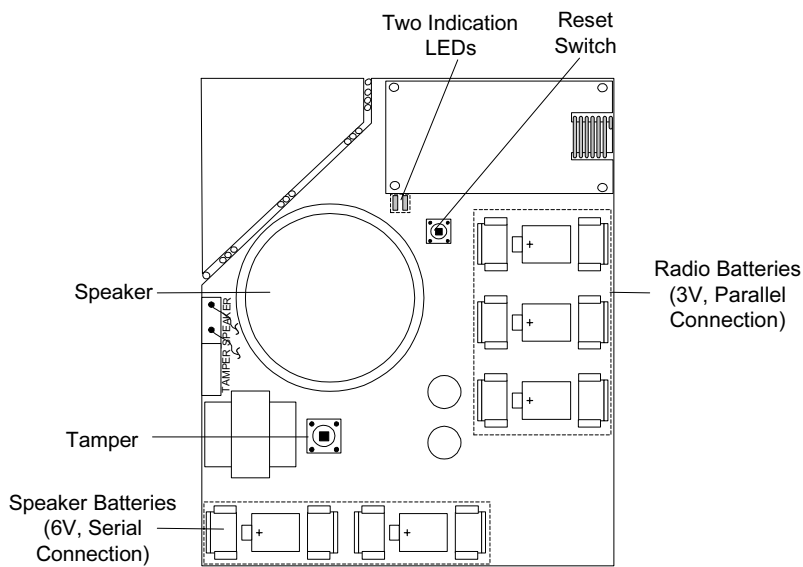
1. Open the front cover by removing the cover locking screw located at the bottom of the unit.
2. Hold the back plate against the wall and mark the locations of the mounting holes. Drill the desired mounting holes and insert screw anchors.
3. Mount the back unit to the wall using the supplied screws.
4. Insert the supplied batteries paying attention to the polarity
5. Perform communication set up with the control panel
6. Once communication setup is completed, close the cover and locking screw.



Remove cover locking screw



Fixing Points to Wall



Internal Sounder - PCB Diagram

WisDom Programming Instructions

The following section describes programming options added to the WisDom relating to the programming of the wireless sounder. Up to 3 wireless sounders (external or internal) can be assigned to the system.

We recommend reading and fully understanding the WisDom Installation and User manuals, before programming the sounder.



NOTE:

The sounder is compatible with WisDom software version 3.xx and above

Installer Programming Menu



➤ To access the sounder menu

1. From the main installer menu press [9] to access the More "Devices menu".
2. Press [2] for Siren.
3. You are now in the sounder submenus as described below.

[9][2][1] Siren: Allocation

The sounder must identify itself to the system's receiver by writing its ID into the WisDom.







➤ Step 1: Introducing the Sounder to the WisDom

1. After accessing the siren menu, press [1] for the **Allocation** menu
2. Select the sounder ID you want to assign.
3. Place the cursor over the **Type** field. Use the  key to choose one of the following options and then press  :
 - ◆ NONE
 - ◆ ODWS1: Outdoor wireless sounder
 - ◆ INWS1: Indoor wireless sounder



NOTE:

After selecting the NONE option the system will ask you whether to erase the sounder or not.

4. Use the  key to choose if the sounder will be audible [Y] or silent [N] and press .
5. Use the  key to choose if the squawk sound will be audible [Y] or silent [N] and press .
6. Use the  key to choose if the squawk strobe is enabled [Y] or disabled [N] and press .



NOTE:

The definition of the squawk strobe is applicable only for the outdoor (ODWS1) sounder.


➤ **Step 2: Setting communication with the WisDom**

1. After adding the sounder to the panel, the sounder must identify itself to the system's receiver by writing its ID into the WisDom receiver. Select the appropriate option as follows:
 - ◆ Press [1] to Skip to the next sounder assignment
 - ◆ Press [2] to allocate the sounder into the WisDom. Send a write signal (within 255 seconds) from the sounder as follows:
 - a. Press the reset switch on the sounder.
 - b. After a squawk is sounded and the sounder's strobe flashes (only in outdoor sounder) you have 10 seconds to press on the tamper switch for at least 3 seconds.
If the sounder is successfully recognized, the WisDom will sound a confirmation beep, the sounder will initiate a squawk sound and the 2 LEDs on the sounder will flash for 3 seconds.
 - ◆ Press [3] to erase the sounder from the WisDom memory.
 - ◆ Press [4] to select whether the sounder will be supervised or not.
2. Repeat the process for other sounders in the system (up to 3).

[9][2][2] Siren: Parameters

Using this menu you can define parameters that reflect the operation of the sounder.

➤ **To set the sounder parameters**

1. From the installer menu, access the siren parameters submenu, Quick Key [9][2][2].
2. Enter the number of the sounder that you want to program and then press . You can now program the sounder parameters.



NOTE:

For internal sounder (INWS1) only the **Volume** parameter is available.

Siren: Parameters

Quick Keys	Parameter
[9][2][2][1]	Strobe Control Defines the Strobe operation mode.
[9][2][2][1][1]	Always Off The strobe is deactivated
[9][2][2][1][2]	Follow Bell (Default) The strobe is activated when the sounder bell is triggered.
[9][2][2][1][3]	Follow Alarm The strobe is activated when an alarm event occurs in the system.

[9][2][2][2]	Strobe Blink		
		Defines the number of times that the strobe will flash per minute.	
[9][2][2][2] [1]-[5]	Strobe Blink options		
	[1] 20 times per minute	[4] 50 times per minute	
	[2] 30 times per minute	[5] 60 times per minute	
	[3] 40 times per minute (Default)		
[9][2][2][3]	Strobe Arm Squawk	Default: 01	Range: 01-20 (seconds)
	The time that strobe blinking will continue when arm is performed.		
	NOTE:		
	If the sounder's squawk strobe is defined as NO (Refer to Allocation section) this parameter will be ignored.		
[9][2][2][4]	Volume		
	Defines the sounder sound volume for the following system modes. The sound volume range is between 0 (silent) to 5 (maximum volume).		
[9][2][2][4] [1]	Exit / Entry		
	The sound produced during exit/entry time		
	Default: 0		
[9][2][2][4] [2]	Alarm		
	The sound produced during alarm. (Default: 9)		
[9][2][2][4] [3]	Squawk		
	The sound produced during squawk sounds (Default: 9)		
[9][2][2][5]	Tamper Mute		
	Selecting this option will disable the tamper sound during the current installation programming period.		
	NOTE:		
	An ongoing tamper alarm will not be disabled.		

[9][2][3] Siren: Communication Test

The sounder communication test performs a communication test between the sounder receiver and the WisDom. The value displayed indicates the receiving level of the signal sent from the WisDom to the sounder's receiver.

➤ **To perform communication test**

1. From the installer menu access the siren communication test submenu, Quick Key [9][2][3].
2. The WisDom sends a test signal to the sounders. A number between 00-99 indicates the strength of the communication signal between the WisDom and the sounder.




NOTE:

For successful communication, the strength of the signal should be higher than the sounder receiver noise threshold level (see quick key [9][2][4]).

[9][2][4] Siren Receiver Calibration

This feature establishes the threshold noise level of the wireless sounder receiver for successful communication with the WisDom.

➤ **To calibrate the sounder receiver**

1. From the installer menu access the siren receiver calibration submenu, Quick Key [9][2][4].
2. Select the sounder for which you want to calibrate its receiver.
3. To perform a new automatic calibration, use the  key to select [Y]. After the calibration process is accomplished, the new noise threshold level is displayed.
4. To confirm the new threshold level, press  or change the threshold level manually and then press .

[1][1][9] Siren Supervision Time

System: Time Define

Quick Keys	Parameter	Default	Range
[1][1][9]	Accessory Supervision Time	65 minutes	00-255 minutes

Specifies how often the WisDom generates a supervision request to the sounders. If any of the sounders does not response to the request immediately the WisDom generates a communication trouble.

NOTE:

If the system bit Comm Fail (Quick key [1][2][33] is defined as YES, a communication trouble will be regarded as a tamper alarm.

If any of the sounders does not respond to the supervision request, at least once, during the supervision time of the WisDom receiver (Quick Key [1][3][3]) the WisDom will regard the sounder as Lost.

IMPORTANT:

The supervision time of the WisDom receiver (Quick key [1][3][3]) should be higher than the accessory supervision time ([1][1][9]) in order to eliminate false lost event.

[1][2][36] Siren Pre Alarm Feature

This wireless sounder incorporates a pre alarm feature that enhances the security of the system, by producing a local alarm in case of the WisDom sabotaged.

System: Control

Quick Keys	Parameter	Default
[1][2][36]	Siren Pre Alarm	No
	Specifies if the WisDom will send a Pre Alarm message to the sounder while an entry delay starts. Yes: The WisDom 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 WisDom at the end of the entry time, the sounder goes into alarm. No: Pre Alarm disabled	

[6][2][6][4] Siren Report Codes

The following are the new report codes related to the wireless sounders.

Report codes → Manual → Wireless → Siren

Quick Keys	Parameter
[6][2][6][4] [1]	Tamper Tamper alarm from sounder X
[6][2][6][4] [2]	Tamper Restore Tamper alarm restore from sounder X
[6][2][6][4] [3]	Battery Trouble Report code for a low battery condition in a wireless sounder
[6][2][6][4] [4]	Battery Trouble Restore Report code for the correction of a low battery condition
[6][2][6][4] [5]	Communication Trouble A report code that indicates the following condition: If any of the sounders does not response immediately to a request from the WisDom, a communication trouble will be established.
[6][2][6][4] [6]	Communication Trouble Restore Restore is established when the WisDom receives any signal from the sounder.

Quick Keys Parameter

[6][2][6][4] [7]	Lost Trouble
	A report code that indicates the following condition: If any of the sounders does not respond to any request from the WisDom, during the <u>supervision time of the WisDom receiver</u> (Quick Key [1][3][3]), the WisDom will regard the sounder as Lost.
[6][2][6][4] [8]	Lost Trouble Restore
	Restore is established when the WisDom receives any signal from the sounder.

Event Log Messages

The following list details the wireless sounder dedicated event messages, as displayed on the WisDom LCD display:

LCD Text	Event Description
Tamper Siren=X	Tamper alarm from wireless sounder X
Tmp rstr Siren=X	Tamper alarm restore from wireless sounder X
No comm Siren=X	Communication failure between the WisDom and sounder X
Comm OK Siren=X	Communication OK between the WisDom and sounder X
Spkr low bat S=X	Speaker low battery trouble
Spkr l.bat rsS=X	Speaker low battery restore from sounder X
Radio l.bat S=X	Radio low battery trouble
Radio l.bat rs=X	Radio (Transceiver) low battery restore from sounder X
Siren=X Lost	Sounder X is regarded as lost following supervision test.
Siren=X Lost Rst	The WisDom received a signal from sounder X after it has been regarded as lost

User Programming Menu

Diagnostics

The diagnostics menu enables to test parameters that reflect the operation of the sounder.

➤ **To perform diagnostics:**

1. From the **user** menu press * [4] to access the Maintenance menu.
2. Enter the Installer code (or sub-installer) and press #↑.
3. Press [7][1] to access the Siren diagnostic menu.
4. Enter the digit representing the sounder you want to test and then press #↑. The system will perform the diagnostics test and a list of test parameters will appear, as indicated in the table below.
5. Use the keys ← → to view the diagnostics test results.

NOTE:

The diagnostic features can be also performed from Upload/Download software, locally or remotely.

Maintenance: Siren Diagnostics

Quick Keys	Parameter
------------	-----------

[4][7][1]	Siren Diagnostics
-----------	--------------------------

Speaker batteries voltage: Tests the selected sounder's speaker batteries voltage.

Radio (Transceiver) batteries voltage: Tests the selected sounder's radio's batteries voltage.

Siren Version

This menu displays information regarding the sounder's version. Repeat steps 1 to 4 in the Siren diagnostic section with the exception of pressing [7][2] in step 3 for the Siren version option

Maintenance: Siren Version

[4][7][2]	Siren Version
-----------	----------------------

- ◆ Sounder part number
- ◆ Sounder software version
- ◆ Sounder software date
- ◆ Sounder software checksum

Replacing Batteries

1. To silence the tamper alarm enter installation programming mode, quick key [9][9][2][5] and activate the Tamper Mute option.
2. Remove the sounder cover as described in the installation section.

NOTE:

If required you can silence a tamper alarm by pressing the RESET Switch.

3. Remove the old batteries from the metal clips and replace with new ones. Pay attention to the polarity.
4. Press the RESET switch.
5. Close the cover and fasten the cover locking screw.

NOTE:

Dispose of batteries according to your local regulations

Technical Information

Electrical

Power Supply	5 X CR123, 3V Lithium Battery (3 batteries for the Radio Transceiver, 2 batteries for the Speaker/Strobe, see External and Internal Sounder - PCB Diagrams on pages 5 and 6)
Battery life	3 years (typical)
Speaker sound level	105 dB @ 1 meters (adjustable)
Strobe lens (External sounder)	Polycarbonate, available in amber, red, blue or transparent
Strobe flash rate (External sounder)	60 times per minute (maximum)
Size: External sounder (HxWxD)	300x 325x70 mm (11.8 x12.8x2.8 inch)
Size: Internal sounder (HxWxD)	145 x 120 x 50 mm (5.7x4.7x2 inch)
External sounder Weight (batteries included)	1 Kg (35.2 oz)
Internal sounder Weight (batteries included)	0.44Kg (15.52 oz)

Radio

Radio type	Two Way Narrow band
Frequency	868 MHz: RWS40086800A, RWS50x86800A* 433 MHz: RWS40043300A, RWS50x43300A* * x represents the strobe lens color
Range up to:	150m (492') Line of sight
Supervision	Yes
Modulation Type	ASK

Environmental

Temperature	-25°C to 60°C (-4°F to 140°F)
IP Rating	IP 44
Environmental Class	Class IV

Ordering Part Numbers

Part Number	Description
RWS40086800A	Internal wireless sounder 868MHz
RWS40043300A	Internal wireless sounder 433MHz
RWS50x86800A	External Wireless sounder 868MHz
RWS50x43300A	External Wireless sounder 433MHz
x	Strobe color cover :A=Amber, R=Red, B=Blue, T=Transparent

RTTE Compliance Statement

Hereby, Rokonet Electronics Ltd, declares that these products (RWS40086800A, RWS40043300A, RWS50x86800A*, RWS50x43300A*) are in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.



* x represents the strobe lens color

Rokonet Limited Warranty

Rokonet Electronics, Ltd. and its subsidiaries and affiliates ("Seller") warrants its products to be free from defects in materials and workmanship under normal use for 12 months from the date of production. Because Seller does not install or connect the product and because the product may be used in conjunction with products not manufactured by the Seller, Seller cannot guarantee the performance of the security system which uses this product. Seller's obligation and liability under this warranty is expressly limited to repairing and replacing, at Seller's option, within a reasonable time after the date of delivery, any product not meeting the specifications. Seller makes no other warranty, expressed or implied, and makes no warranty of merchantability or of fitness for any particular purpose.

In no case shall seller be liable for any consequential or incidental damages for breach of this or any other warranty, expressed or implied, or upon any other basis of liability whatsoever.

Seller's obligation under this warranty shall not include any transportation charges or costs of installation or any liability for direct, indirect, or consequential damages or delay.

Seller does not represent that its product may not be compromised or circumvented; that the product will prevent any person's injury or property loss by burglary, robbery, fire or otherwise; or that the product will in all cases provide adequate warning or protection. Buyer understands that a properly installed and maintained alarm may only reduce the risk of burglary, robbery or fire without warning, but is not insurance or a guaranty that such will not occur or that there will be no personal injury or property loss as a result.

Consequently seller shall have no liability for any personal injury, property damage or loss based on a claim that the product fails to give warning. However, if seller is held liable, whether directly or indirectly, for any loss or damage arising from under this limited warranty or otherwise, regardless of cause or origin, seller's maximum liability shall not exceed the purchase price of the product, which shall be complete and exclusive remedy against seller.

No employee or representative of Seller is authorized to change this warranty in any way or grant any other warranty.

WARNING: This product should be tested at least once a week.

Contacting Rokonet

Rokonet Electronics Ltd. is committed to customer service and product support. You can contact us through our website (www.rokonet.com) or at the following addresses:

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