32 Zone Wireless Receiver

Model:RP432EW4000A





© RISCO Group 05/2018 Complies with: EN 50131-3; EN 50131-5-3 Grade 2 Class II

RISCO Group Contacting Info

RISCO Group is committed to customer service and product support. You can contact us through our website (www.riscogroup.com) or at the following telephone numbers:

F

CHINA (Shanghai) Tel:

support@riscogroup.com

BELGIUM Tel: +32-2522-

U.S.A Tel: +1-631-719-4400

support-usa@riscogroup.com

cn@riscogroup.com

be@riscogroup.com

7622 support-

+86-21-52-39-0066 support-

ISRAEL Tel: +972-3-963-7777

5IN1424 G

RISCO Group

14 Hachoma st.

Rishon LeZion

ISRAEL

UK Tel: 44-(0)-161-655-5500 support-uk@riscogroup.com

ITALY Tel: +39-02-66590054 support-it@riscogroup.com

SPAIN Tel: +34-91-490-2133

support-es@riscogroup.com

FRANCE Tel: +33-164-73-28-50 support-fr@riscogroup.com

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.

RISCO Group Limited Warranty

RISCO Group and its subsidiaries and affiliates ("Seller") warrants its products to be free from defects in materials and workmanship under normal use for 24 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 personal 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 guarantee that such event will not occur or that there will be no personal injury or property loss as a result thereof.

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 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

ENGLISH

Introduction

The LightSYS 2-Way Wireless Expander is a flexible unit that can be used either as a wireless expander when connected to the LightSYS security panel or as a stand-alone receiver, with support for up to 200 keyfobs and 2 outputs.

Main features

 Support for RISCO's range of 2-Way wireless sounders. slim keypads, 8-button keyfobs and detectors • Up to 4 2-Way wireless slim keypads

- Up to 32 supervised wireless zones (bus mode)
- Up to 16 multi-function keyfobs (bus mode)
- Up to 200 stand alone keyfobs (bus and stand-alone modes)
- Two utility outputs
- Rolling code technology
- · Signal jamming detection
- · Threshold-level calibration
- Tamper detection
- · Transmitter supervision low battery detection
- Nominal center frequency: 868.65MHz or 433.92MHz or 915MHz
- · Can be installed inside or outside the LightSYS main enclosure
- Up to two WL Expanders per LightSYS system

Installation The WL Expander can be mounted as a separate unit with its own plastic housing or as PCB inside the LightSYS main @||(A polycarbonate enclosure. For mounting the expander inside the LightSYS enclosure refer to the LightSYS installation manual.

Mounting considerations

When installed in its plastic housing: . Do not install the WL Expander close to metal objects and RF generating devices such as TV sets or computers. • Mount the expander at a height of at least 1.5 m (5 ft) above the floor. • Mount the expander relatively close and central to the transmitter locations.

6660

30

Wall Mounting Figure 1 – Rear Panel

1. Screw cap

- 2. Upper mounting hole



- 1. Separate the mounting bracket from the main unit.
- 2. Use the mounting bracket as a marking template.

3. Tear off screw caps, as needed for covering front screw hole.

4. Mount the bracket to the wall. Wiring the WL Expander



Terminal	Description
AUX Red	+13.8V power VDC. (In bus connection,
	connect to AUX on the LightSYS)
Com BLK	Black 0V common. (In bus connection, connect to COM on the LightSYS)

3. Allocate the WL expander to the system (Programming menu - Quick key [7 > 1 > 2 > 05]



- VL Expander is installed inside the LightSYS enclosure the s Tamper must be defined as Yes
- 4. Allocate the relay outputs of the expander as an output expander (UO02) to the system (Programming menu - Quick key [7 > 1 > 2 > 031
- 5. Calibrate the expander (Programming menu Quick key [7 > 2 > 1])
- 6. Allocate wireless device (Programming menu Quick key [7 > 2 > 2]) 7. Perform communication test between the expander and the device
- (Main menu > Maintenance> Wireless Test)
- 8. Set the WL device parameters (Zones: Quick key 2 > 1.
- Keyfobs Quick key 8 > 2) and the outputs parameters (Quick key 3)

Stand Alone Mode (SW8 in ON position)

12345678

Data bus connection (Not for SA mode)

Data bus connection (Not for SA mode)

BUS YEL

BUS GRN

Relay 1 N.O.

set to 1 by default

2. Define the output expander ID using switches [4]-[6]

Relay 1 COM



When the expander is set to Stand Alone mode it can support 200 keyfobs that can control its 2 outputs. Each output is controlled by a dedicated button. Dipswitch Settings

Delay 4 N/O	12\/DC @ 1A max Dry Contact Relays	SW1 + SW2	Receive	er operation mod	le:		
Relay 1 N.C.			SW1	SW2	Mode		
Relay 2 COM	-		0.55	055			
Relay 2 N.C.	12VDC @ 1A max Dry Contact Relays		OFF	OFF	Normal mod	le	
Notes:	· · · · · · · · · · · · · · · · · · ·		ON	OFF	Program mo	ode	
1 maximu total b 2 n closing to cover	m wire run permitted is 300 meters (1,000 feet) us wiring regardless of the wiring gauge used. g the cover use a screw cap located on the rear the closing screw		OFF	ON	Restore to r	nanufacturer settings	
Bus Mode			ON	ON	Delete keyf	obs	
(SW8 in OFF p	osition)	SW3	Relay	1/2			
Dipswitch Sett	ings		Off: F	Relay 1 Relay 2			
SW1- SW3	Three switches to set ID of the WL Expander.	SW4	Used	to define the Re	lays operatior	s operation	
SW4 – SW6	Three switches to set ID of the output expander.		Off: F	iff: Pulsed			
SW7	UO expander Enable/Disable Off: Disable On: Enable	SW5	Settin Off: F off Or is on	Jn: Eatoned enting pulse duration Off: Pulsed counter is off On: Pulsed counter s on			
		SW6	Relay	Fail secure / Re	lay fail safe		
SW8	Operational mod		Off: Fa	il secure: Relay	will not chang	e state while power is	
	SW7	On: Fail safe: Relay will change state while power is lost. Changing output keys control in the keyfobs Off: Changing LIO process in disabled					
LEDs Indicatio	n	-	On: (Changing UO pro	ocess in activa	ated	
LED	Condition Description	SW8*	Recei	ver mode	* Rece	iver mode	
Power / Bus	Bus communication between the LightSYS and		Off: B	us mode	char	iges only after	
Communication the WL Expander (RED) Steady: Bus Communication OK			On: Stand alone mode powe			ring the receiver	
	rouble	Leus muica		ondition		Description	
WL Comm	Communication between a WL device and the	Power / Bus	2 R	eceiver mode		Description	
(GREEN)	WL Expander Steady: Bus Communication OK Flash: Bus Communication trouble		ation Si Si Qu	on Steady on: Normal mode Slow flash: Learn mode = assign device Quick flash: Delete mode			
Programmin	WL Comm	0	One Pulse: Confirmation during program mode				
The following inst	tructions define the main programming steps for	(GREEN)	(GREEN) Flash: In communication				
performing wirele	ess expansion to the LightSYS using the expander.	Programm	ing				
Two expanders of programming inst	can be allocated to the LightSYS. For full tructions refer to the LightSYS full installation	Note:	from bu	s mode to stan	d-alone mod	e unnlug the	
manual.	n, s	n, set SW8 ON, then plug-in again.					

- 1. Define the expander ID using switches [1]-[3]. The expander ID is Enrolling Keyfobs
 - 1. Set SW1 ON, SW2 OFF.
 - 2. Press Prog button shortly. Red LED flashes slowly.



- Press the keyfob local key. Green LED lights steadily for confirmation
- 4. Repeat steps 2-3 to assign additional keyfobs.
- 5. Press Prog to exit this mode.

Deleting A Single Keyfob

- Set SW1 and SW2 ON.
 Press **Prog** button shortly. Red LED flashes slowly.
- 3. Press the keyfob & key. The Green LED lights steadily for
- confirmation. 4. Repeat steps 2-3 to delete
- additional keyfobs.

Deleting All Keyfobs

- 1. Set SW1 and SW2 ON.
- Press Prog button for 5 seconds. Red LED lights steadily.
- 3. When finished, Green LED lights steadily for confirmation.



Restoring to manufacturer default

1. Set SW1 OFF, SW2 ON.

Press **Prog** button shortly. Red LED flashes slowly.
 When finished, green LED lights steadily for confirmation.



eless accessories will be erased.

Setting Relay Pulsed /

- Latched 1. Set SW1 ON, SW2 OFF
- 2. Using SW3 select relay 1 (OFF) or relay 2 (ON).
- 3. Using SW4 select latched (ON) or pulsed (OFF).
- 4. Press **Prog** button for 5 seconds to change relay status. Green LED lights steadily for confirmation.

5. Repeat steps 2-4 for the second relay.

Setting Relay Pulse Duration 1. Set SW1 ON, SW2 OFF.

- 2. Using SW3 select relay 1 (OFF) or relay 2 (ON).
- 3. Set SW4 OFF (pulsed).
- 4. Set SW5 ON. The system is ready to start a counter for a pulse (5 minutes maximum).
- Press Prog button to start the timer. Red LED flashes slowly. 6. Press Prog button again to stop the timer. Green LED lights steadily for confirmation.

7. Set SW5 Off.

8. Repeat steps 4-7 for the other relay.

Changing Buttons for Outputs on the 4-Button Keyfob By default, button 3 (small round key) of the keyfob controls output 1 and button 4 (egg shape) controls output 2. This can be changed for all the keyfobs that are already assigned to the WL Expander.

1. Set SW1 ON, SW2 OFF. 2. Set SW7 On.



3. Press **Prog** button for 5 seconds. Red LED lights steadily.



4. This will replace button 3 to button 1 and button 4 to button 2. Green LED lights steadily for confirmation.

5. Set SW7 Off.

Technical specification			
Operating Voltage:	13V +/- 10%		
Current consumption:	Typical: 40 mA; max 65mA		
RF immunity:	According to EN50130-3		
Range (L.O.S):	300 meters		
Relay outputs:	12VDC @ 1A max Dry Contact Relays		
Operating temperature:	0°C to 49°C (32°F to 120°F)		
Storage temperature:	-20°C to 60°C (-4°F to 140°F)		

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ı.							
			0	0	-	0	-

Size:

1	2	- 3	4	5	b	1

3 4 5 6 7

requency:	RP432EW8 – 868.65 MHz
	RP432EW4 – 433.92 MHz
	RP432EW9 – 915 MHz

125.5 X 78 X 25.5 mm

(4.94 X 3.07 X 1 inch)

FCC ID: JE4RP432EW9

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

FCC Note

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 will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment on and off, 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 the receiver.
- Connect the equipment into an outlet on to a different circuit from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

