

# RHGPS2 - Multi-Switch, Z-Wave

## **Installer Guide**



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## **715C@**

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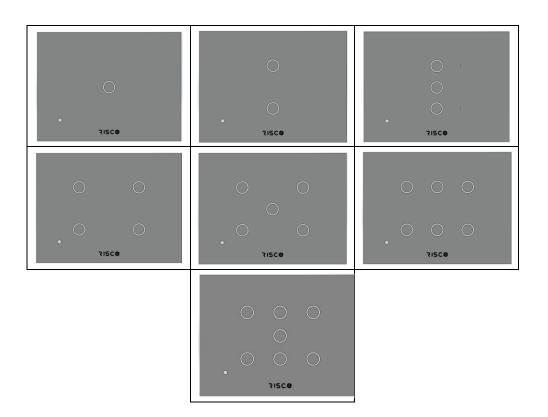
## **Manual Scope**

The purpose of the Installation and setup guide is to describe the operational aspects, installation, and setup relevant to the Multi Switch installer.



Figure 1: Multi Switch - General Front Panel Structure







## **General Description**

The RHGPS200000A is a programmable smart switch that can be equipped with four Relays for activating loads (default configuration) like light bulbs, shutters and can be connected to a smart house controller that increases its operational abilities. When the switch is connected to a controller, it c an be programmed remotely by a computer, a smart phone, a remote control, or Alexa via a dedicated controller. The remaining three buttons can be used for scene control.

### **Front Panel**

The RHGPS200000A smart switch front panel is constructed of seven configurable buttons as described in Figure 2: Multi Switch - Front Panel Structure US vs EU installation

All seven buttons can also be programmed manually for activating loads (according to the selected touch glass). Each button activation status is indicated by blue or green or red light according to its initial programming.

As standard, the front glass panel is supplied with seven basic buttons however, to complete a professional installation a new front glass may be ordered with the number of buttons required through the RISCO website and customizing the number of buttons required (1-7), the color of the glass and adding icons and text to the buttons to meet the customer's requirements.

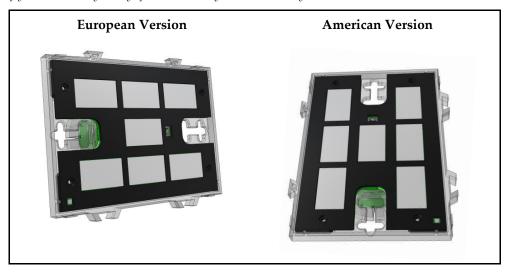
More info on manual programming in chapter 'Switch Programming".

The default switch buttons setup is as follows:

- Button 1 Connection terminal No.1
- Button 5 Connection terminal No.2
- Button 3 Connection terminal No.3
- Button 7 Connection terminal No.4
- Buttons 2, 4, 6 are used as programmed buttons when the switch is connected to a controller (or change buttons).

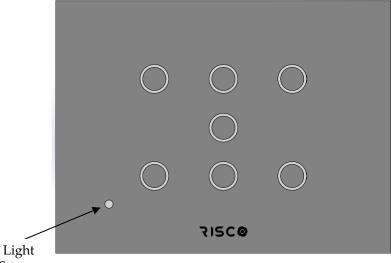


**Note:** The Scenes operate from the Root End Point on the switch using buttons 2, 4 and 6. However, if you move a relay to any of these buttons you lose the ability to use the as Scenes.



Note: It's the same unit - only in vertical position

Figure 2: Multi Switch - Front Panel Structure US vs EU installation



Sensor Figure 3: Multi Switch - Front Panel Structure + Light Sensor



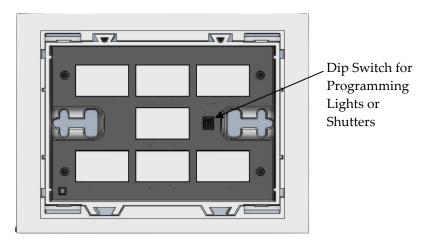


Figure 4: Multi Switch - Front Panel Front Panel Structure + Light Sensor

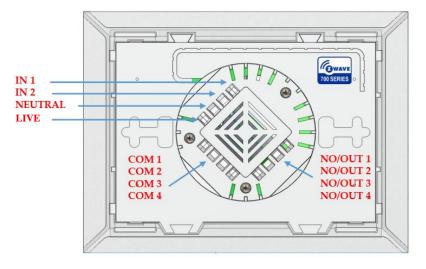


Figure 5: Multi Switch - Rear Panel Connections 2 way Regular Switch



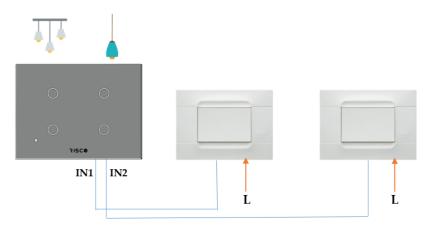


Table 1: Multi Switch - Rear Panel Structure

Item No.	Name	Description	
1.	Load Connection	Relay 5A - Used for connection light/shutter or	
	COM/NO No. 1	dry contact of Load No.1	
2.	Load Connection	Relay 5A - Used for connection light/shutter or	
	COM/NO No. 2	dry contact of Load No.2	
3.	Load Connection	Relay 5A - Used for connection light/shutter or	
	COM/NO No. 3	dry contact of Load No.3	
4.	Load Connection	Relay 5A - Used for connection light/shutter or	
	COM/NO No. 4	dry contact of Load No.4	
5.	Power Connection	Used for connection of power source L wire	
	L	110-230VAC	
6.	Power Connection	Used for connection of power source L wire	
	N	110-230VAC	
7.	INT 1	Used for connection 2-way regular switch for	
		relay 1	
8.	INT 2	Used for connection 2-way regular switch for	
		relay 2	

## **Event Rules**

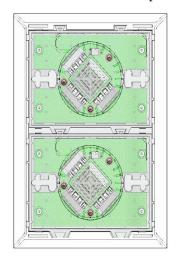
An event rule can be created to follow the change of status of a Relay/Light to perform the action of switching additional Scenes or Z WAVE devices.

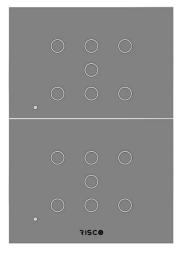


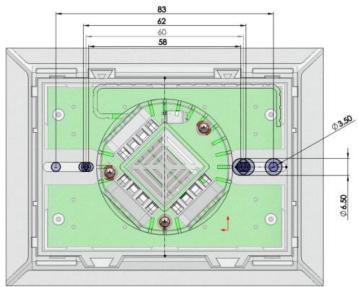
### Wall Installation

The RHGPS200000A ver2 switch is designed to be installed for most of the junction boxes such as in:

Italian, UK (India, Nigeria, Hong Kong, Singapore, Thailand...), Australia, Israel, Usa, Canada, China... for Europa – Single and Dual boxes.

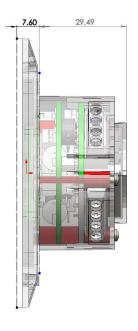


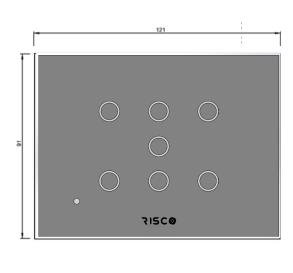




Dimensions: 121 (L) x 91 (W) / 146 (L) x 91 (W)







## **Installation Safety Instructions**

- 1. Never install the touch glass prior to completing the installation and programing process.
- 2. The installation process will be carried out only by a certified electrician.

Caution! Failure to comply may cause injury to personnel and/or damage to equipment.

### **Power Connection**

Caution! Power supply connection to the switch will be carried out only by a certified electrician. Failure to comply may cause injury to personnel and/or damage to equipment.

- 1. Connect power cable to the switch.
- 2. Connect the LIVE wire to the "L" terminal.
- 3. Connect the neutral wire to the "N" terminal.



## **Consumers (Shutter and Lighting) Connections**

Caution! Power supply connection to the switch will be carried out only by a certified electrician. Failure to comply may cause injury to personnel and/or damage to equipment.

- 1. Connect relays No.1/2/3/4 to outputs NO01/2/3/4, respectively.
- 2. Connect the switch to the power source, all seven buttons at the front panel will light in blue.

### **Relay Operation Checkout (LEDs Indications)**

To distinguish which Relay is in use, you can view the LED light for identification.

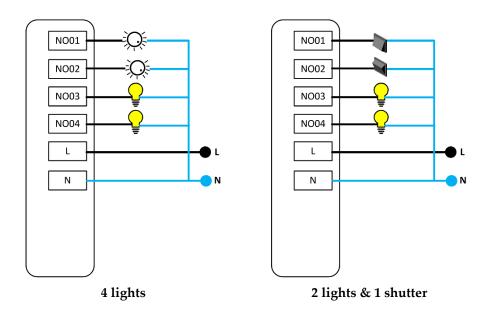
Dongle Type	Press Button procedure	LED Indication
Normal scene buttons	<ul> <li>One short press – Scene button.</li> <li>Two short press – Scene button.</li> <li>Key-Down (after holding the key for at least 2 sec.) – Scene Button</li> <li>Key-Released (releasing the key after holding it) – Scene Button</li> <li>Use only when connect the Device to Z WAVE controller. Assigned from the Root End Point.</li> </ul>	After every press the button changes to Green for 2sec and returns to Blue.
Relays	One short press to close the Relay (Turn ON)     Pressing short again to open the relay (Turn OFF)  Each short press changes the state of the Relay.	<ul> <li>Relay close (Turn ON) – Green.</li> <li>Relay open (Turn OFF) – Blue.</li> <li>(Also, can change the led to Red by the parameters)</li> </ul>
Curtain	<ul> <li>Short press UP/Down button – Curtain Move UP/Down         (Until stop the curtain or it gets to its end point).</li> <li>Two short presses at UP/Down – Stop.</li> <li>Short press of the negative direction – Stop.</li> <li>Press and Hold UP/Down – Curtain starts to move until releasing the button (need</li> </ul>	After every press the button change to Green to 2sec and return to Blue.



to change parameter 18 or 19).

Pressing both Up & Down buttons is not allowed!

After main power failure, the state of the relays and the LED color of the buttons return to the last state before power failure. Curtain remains in the last position.





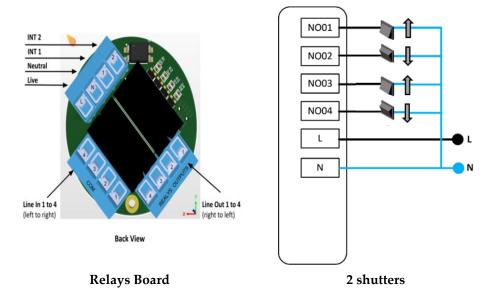
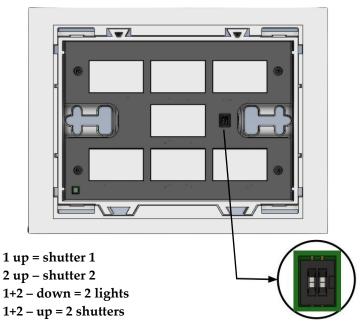


Figure 6: Relay Operation & LED Indicators







Shutter Default Buttons: Buttons 1 (Up) and 5 (Down) for shutter 1 and buttons 3 (Up) and 7 (Down) for shutter 2

Figure 7: DIP Switch Settings



### **Touch Glass Installation**

The touch glass installation will be carried out only after the switch programming is completed:

- 1. Connect the Wired terminal to the cables in the wall ("L", "N", C+N.O 1-4)
- 2. Insert the programmed switch into the wall junction box.
- 3. Install the two screws that attach the smart switch to the junction box.



Do not overtighten the two screws beyond hand force, otherwise the switch housing will be distorted. Touch glass installation is not available over a distorted switch housing.

- 4. Mount the touch glass on the front of the switch and gently push until a lock sound (click) is heard.
- 5. Make sure that the touch glass is properly installed and leveled. Wait for some 4-5 sec until powering up the switch.

**Note:** Clean the touch glass with dry cloth only. No detergents are allowed.

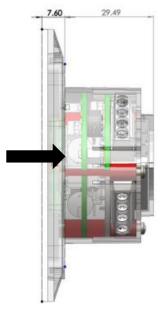


Figure 8: Touch Glass Installation



## **Switch Programming**

The programming process sets up the configuration of the activated buttons according to the touch glass structure. The switch programming is carried out without the touch glass installed.

**Note:** In programing mode, the Buttons and the Z WAVE ability is disabled. Upon exiting they will become operational again.

## **Entering/Exiting Programming Mode**

- Enter programming mode, press four short times on button No.4 and hold it
  pressed on the fourth time for four seconds and release. The switch frame will
  flash twice. All nine buttons will light green indicating programming mode.
- Exit programming mode, press four short times on button No.4 and hold pressed on the fourth time for four seconds and release, the switch frame will flash twice. All nine buttons will light blue indicating normal/operate mode.
- 3. Another way to exit programing mode is by turning OFF the main power of the device. After ten sec, power ON again (the programing is saved).

**Note:** Programing mode enables the user to perform factory reset, change the order of buttons, set the calibrate time.

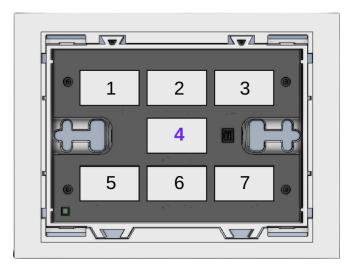


Figure 9: Entering/Exiting Programming Mode



## **Changing the Buttons Settings**

Every Relay ON/OFF, Shutter Up, Shutter Down. Can be controlled from any of the seven buttons of the RHGPS200000A.

- 1. Enter programming mode according to instructions in section *Entering/Exiting Programming Mode* (page 16).
- Press two times on button No.7 and hold the button pressed for four seconds and release to enter buttons settings mode. (All the seven buttons will turn Off).
- 3. The switch frame LED will flash once, indicating setting up relay No.1 button.
  - a. Press shortly one time on the required button to associate relay No.1.
  - b. Selected button turns ON and stays blue.
- 4. The switch frame will flash twice, indicating setting up relay No.2 button.
  - a. Press shortly one time on the required button to associate relay No.2.
  - b. Selected button turns ON and stays blue.
- 5. The switch frame will flash three times, indicating setting up relay No.3 button.
  - a. Press shortly one time on the required button to associate relay No.3.
  - b. Selected button turns ON and stays blue.
- 6. The switch frame will flash four times, indicating setting up relay No.4 button.
  - a. Press shortly one time on the required button to associate relay No.4.
  - b. Selected button turns ON and stays blue.
- 7. Upon completion of the buttons set up, the switch frame LED will flash five times and all the buttons turn to green.
- 8. Exit programming mode according to instructions in section *Entering/Exiting Programming Mode0* (page 16).

#### Notes:

1. During programming, if you don't want a relay to function with any button do not select a button, but `wait until the switch frame LED times out and moves on to the next relay to select. Not selecting any of the buttons will disable all relays.



2. If you want to set only one or two buttons - do not press anything after performing points 4 or 5 below, in section Shutter Travel Times Setup, until completing point 7.

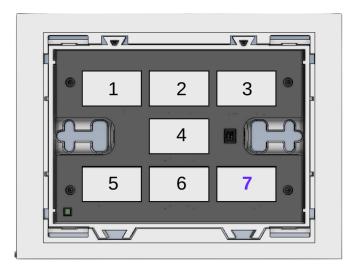


Figure 10: Changing Buttons associated to Outputs

## **Shutter Travel Times Setup**

*Note:* Default shutter travel time for each direction is 60 seconds.

- 1. Lower the real shutter to its minimum travel position. (Can be done with the Down button of the RHGPS200000A).
- 2. Be sure the Down button of the RHGPS200000A is at its end point (when pressing the Down button, no movement sound can be heard).
- 3. Enter programming mode according to instructions in section *Entering/Exiting Programming Mode*0 (page 16).
- 4. Press twice on button No.4. Hold the button pressed on the second time for four seconds and release (the LED of the UP will be lite in blue) press on the shutter UP button and release (the down button turns on in blue).
- 5. Now move the real shutter UP: press on the shutter UP button and release
- 6. UP button returns to green. And the Down Button will turn blue.
- 7. Wait until the shutter goes up to its maximum travel position. When it comes to the top press the down button once and release.



- 8. If you have another shutter, redo points 4-7 (be sure that the real second shutter and its down button is set to the minimum limit).
- 9. Upon completion of the setup the switch LED frame turns OFF.
- 10. Exit programming mode according to instructions in section *Entering/Exiting Programming Mode* (page 16).

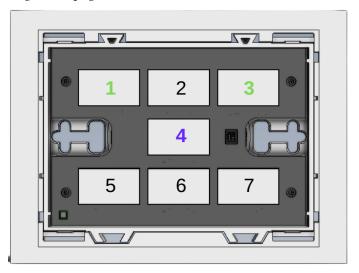


Figure 11: Shutter Travel Times Setup

## **Reset to Default Settings**

- 1. Enter programming mode according to instructions in section *Entering/Exiting Programming Mode*0 (page 16).
- 2. Press twice on button No.1 and hold the button pressed for four seconds on the second time.
- 3. The switch frame will turn on for one second and after that it will flash five times indicating that the switch has reset to default settings.
- 4. Exit programming mode according to instructions in section *Entering/Exiting Programming Mode*0 (page 16).



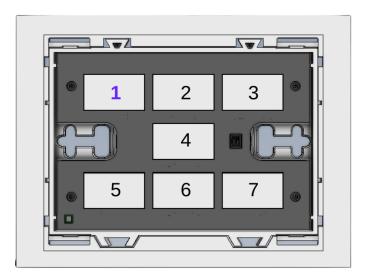


Figure 12: Reset to Default Settings

**Note:** Reset to default, resets the buttons order, shutter time, shutter travel (60sec) and Z WAVE data (Home ID, UID, ACC).

## Connecting the Switch to a Controller

**Important Note:** Changing the buttons according to the desired glass must be done before inclusion in the controller. If buttons for light relays are changed then a re-read can be performed on the RISCO Installer Cloud to obtain the changed setting to the gateway. If the buttons for curtain control are changed after inclusion to a Z WAVE controller, the switch should be removed and then re-added to the gateway so the gateway will know the changed settings.

- 1. RHGPS200000A need to be at normal mode (Z WAVE inclusion doesn't work at programing mode).
- 2. Bring your Z WAVE controller to Include/Exclude mode. (Non security mode)
- 3. Press on button No.4 for three times (within 1.5 sec) to establish communication with the controller. The switch frame will start flash. And from the Controller GUI (Graphic user interface) see massage of success. (The switch transmits for 60 sec and stops)
- 4. Check that both RHGPS200000A and Controller respond as programmed: Set command / Get Feedback / Display icons. If something is not OK please redo from point 2.



5. To disconnect from the controller: redo from point 2.

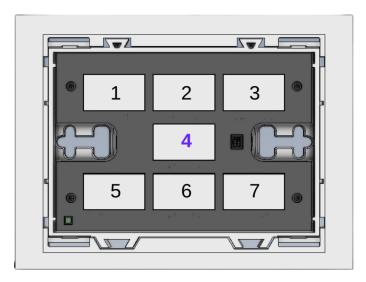


Figure 13: Establish Communication with The Controller

## Parameters RHGPS200000A:

Table 1 - configure functions list

Number (hex)	Function	Possible Values	Default
10 (0x0A)	Relay 1 Activating Pad (Buttons can also be changed by the keys themselves)	0 - Not Active / Pad 1-7	1
11 (0x0B)	Relay 2 Activating Pad (Buttons can also be changed by the keys themselves)	0 - Not Active / Pad 1-7	5
12 (0x0C)	Relay 3 Activating Pad (Buttons can also be changed by the keys themselves)	0 - Not Active / Pad 1-7	3
13 (0x0D)	Relay 4 Activating Pad	0 - Not Active / Pad 1-7	7



		_	
	(Buttons can also be changed by the keys themselves)		
14 (0x0E)	Relay 1 & 2 Switch Timer (also turn him to pause and release button- for Shade 24VDC)	0->255 seconds	0
15 (0x0F)	Relay 3 & 4 Switch Timer (also turn him to pause and release button-for Shade 24VDC)	0->255 seconds	0
16 (0x10)	Relay 1 & 2 Curtain Timer	0->127 seconds	60
17 (0x11)	Relay 3 & 4 Curtain Timer	0->127 seconds	60
18 (0x12)	Curtain 1 Short Press Enabled (safety for entrance curtain)	0 – NO(Trigger button) / 1 – YES (Regular)	1
19 (0x13)	Curtain 2 Short Press Enabled (safety for entrance curtain)	0 – NO(Trigger button) / 1 – YES (Regular)	1
20 (0x14)	ON color	0-R / 1-G / 2-B / 3- No LED	1-Green
21 (0x15)	OFF color	0-R / 1-G / 2-B / 3- No LED	2-Blue
22 (0x16)	Frame Leds State	0-OFF / 1-ON	0-OFF
42	Frame lighting intensity	0-OFF / 1-100 LEVEL	_
23 (0x17)	Touchpad Enabled (Shabat)	0 - NO . (Shabat) 1 - YES	1
90 (0x5A)	Reset (write)	1 - soft / 99 - factory (without frequency change)	0



99 (0x63)	Region [1]	Possible Regions ID	0-EU

### **POSSIBLE REGIONS VALUE**

The value used by the region configuration command.

Region	Config Number
REGION_EU	0
REGION_US	1
REGION_ANZ	2
REGION_HK	3
REGION_IN	5
REGION_IL	6
REGION_RU	7
REGION_CN	8
REGION_JP	32
REGION_KR	33



## **Troubleshooting**

#### **Deactivated Buttons**

- 1. Check power source connections.
- 2. Make sure the switch is not closed too tightly on the wall.
- 3. Make sure the glass is fully pressed.
- 4. Check that all consumers wires are properly connected.
- 5. Reset to default setting.
- 6. Disconnect from the power line for 30 sec and back again.

#### **Unlit Buttons**

- 1. Check that the two screws that attach the smart switch to the junction box are not overtight.
- 2. Slightly unscrew both screws until pressure on the switch frame is relaxed.

#### **Overload**

- 1. To avoid overload, make sure not to exceed the following current recommendations: Relay ON/OFF & Shutter up to 5A.
- 2. Make sure the total current of the loads will not exceed 10A. As a result of overload, the device could warm up, in that case, turn the power off and on again and reduce the load.



## **Technical Specifications**

Parameter	Description	
Power Supply:	100-240 VAC, 50/60Hz	
Rated Load Current	Each relay can support up to 3.5A on output (Voltage	
	depends on input 1-4)	
<b>Physical Ports</b>	4 relays (2 pairs)	
	o Two independent AC Input ports (For each relay	
	pair)	
Rated Max Load	10A	
Current		
Relay Output	Radio protocol: Z-Wave (700 series chip)	
Zero cross technology		
Glass Cover	1.85mm tempered glass	
Dimensions on wall	121 (L) x 91 (W) / 146 (L) x 91 (W)	
<b>Operating Temperature</b>	0 - 40° C	
Ambient Humidity	0-95%RH (without condensation)	
Sensors	Ambient Sensor	
Controls	7 independent keys with RGB LED for each key	
Bright frame	Always on or 1-100 level	
Configuration	2 DIP switches for functionality configuration (lights &	
-	shutters)	

### FCC ID: JE4RHGPS2

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

Changes or modifications to this equipment which are not expressly approved by the party responsible for compliance (RISCO Group's.) 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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.



## 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 <a href="https://www.riscogroup.com">www.riscogroup.com</a> 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.

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