

Outdoor Stand-Alone Weatherproof Keypads

Manual



(SK-2323-SDQ shown)



(SK-1323-SPQ shown)

Model	2 Relay	Backlit	Proximity
Number	Outputs	Keys	Reader

Mullion-Style Keypads

SK-2323-SDQ	\	✓	
SK-2323-SPQ	√	√	✓

Sealed-Environment Keypads

SK-1323-SDQ	✓	✓	
SK-1323-SPQ	✓	✓	✓





ENFORCER Outdoor Stand-Alone Keypads

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Features

- 12~24 VDC/VAC operation.
- 1,010 User codes.
- 2 Form C relays, each rated 1 Amp @ 30VDC.
- Each relay has programmable output time from 1~99 seconds or toggle.
- Output #2 can be programmed for use with a doorbell.
- 2 Egress inputs and 1 door sensor input.
- · Backlit keys for easy nighttime use.
- · Able to mount to a single-gang back box.

- All features are programmed directly from the keypad—no need for an external programmer.
- EEPROM memory protects programmed information in case of power loss.
- · Optical tamper for added security.
- Circuitry is potted with epoxy for outdoor use.
- IP 65 weatherproof rating, rugged aluminum construction.
- Built-in proximity card reader (SK-2323-SPQ and SK-1323-SPQ only).

Specifications

Operating voltag	е	12~24 VDC/VAC							
	Standby	64mA@12VDC							
Current draw	1 Relay active	92mA@12VDC							
	2 Relays active	120mA@12VDC							
Relay outputs	Output #1	1A@30VDC, Form C, NO/NC/COM							
Relay outputs	Output #2	1A@30VDC, Form C, NO/NC/COM							
Egress inputs	Input #1	N.O. ground							
Egress iriputs	Input #2	N.O. ground							
Door sensor inpu	ut	N.C. ground							
Tamper sensor		Optical							
Operating tempe	rature	-4°~122° F (-20°~50° C)							
Keypad LED life		60,000 hours (over 6.8 years)							
Weight	SK-1323 Series	1-lb 2-oz (510g)							
vveignt	SK-2323 Series	11-oz (312g)							
Proximity reader	frequency	125kHz							
SK-2323-SPQ ar	nd SK-1323-SPQ only)	IZONI IZ							
Proximity reader		2" (5cm)							
(SK-2323-SPQ a	and SK-1323-SPQ only)	2 (3011)							

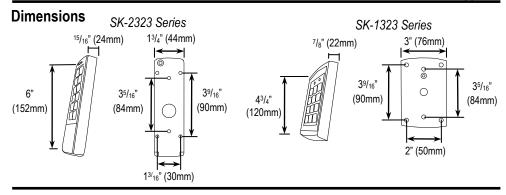
Also Available from SECO-LARM

PR-K1K1-AQ: Proximity key fobs. (Sold in packs of 10).



PR-K1S1-A: Proximity cards. (Sold in packs of 10).





Parts List

1x Keypad 4x Mounting screws 1x Security screw 1x Mounting template 1x Metal oxide 1x Manual 4x Screw anchors 1x Torx wrench 1x Diode varistor (MOV)

LED & Audible Indicators

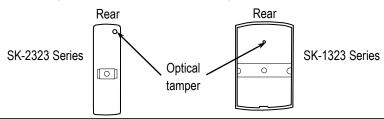
Left LED	Right LED	Keypad Status
OFF	Green	Power ON
OFF	Orange	Programming Mode
Green	Orange flashing	Waiting to program code/card* (card+code access mode)
Red	Orange flashing	Code/card* already present
Green	Green	Relay 1 activated
Red	Green	Relay 2 activated
Orange	Green	Relay 1 and 2 both activated
Orange	Orange	Restoring factory defaults
Green flashing	Green	Waiting for code/card entry* (card+code access mode)
OFF	OFF	Power OFF / Clearing user codes

Audible Tones	Keypad Status
1 Long tone	Confirmation
1 Short tone	Key press
2 Short tones	Invalid entry
3 Short tones	User code/card denied
Constant short tones	Alarm triggered
6 short + 1 long tone	All user codes deleted
No tone when key is pressed	Wrong code lockout

*Card operation with SK-2323-SPQ and SK-1323-SPQ only.

Optical Tamper

There is an optical tamper on the rear of each unit. If the sensor detects light, the tamper alarm will sound. For information on how to program the optical tamper, please see page 13, *Programming the Optical Tamper*.



Important Notes



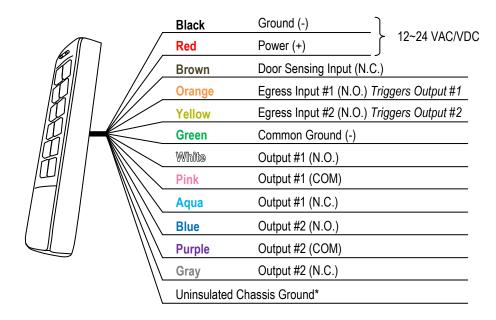
IF USING THE KEYPAD WITH A MECHANICALLY OPERATED DOOR OR GATE, MOUNT THE KEYPAD AT LEAST 5' (15m) FROM THE DOOR OR GATE TO PREVENT USERS FROM BEING CRUSHED OR PINNED.

FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY OR DEATH.



- 1. Always disconnect power before servicing the keypad.
- The keypad must be properly grounded. Use a minimum 22AWG wire connected to the Uninsulated Chassis Ground wire. Failure to do so may damage the keypad.
- 3. All wiring and programming should be done by a professional installer to reduce the risk of improper installation.
- Basic keypad functions are located on page 16 of this manual. Be sure to store this manual in a safe place for future reference.
- 5. If using VAC, use the Green Common Ground wire for all sensor input.

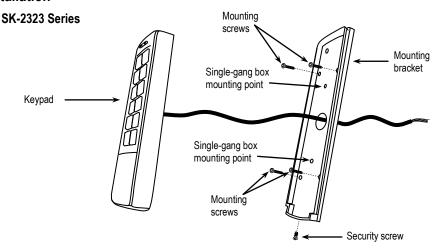
Wiring Diagram

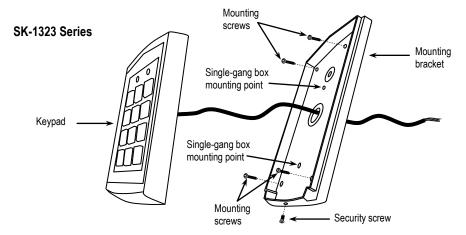


SK-2323 series shown. Wiring is the same for both series.

^{*}Chassis Ground: Connect a continuous wire from the Uninsulated Chassis Ground wire to a grounding point to avoid damage from static discharge. A good grounding point could include a grounded metal conduit, a cold water pipe, or a grounding rod. Use 18AWG wire for earth ground for best results. Wire used must be at least 22AWG.

Installation





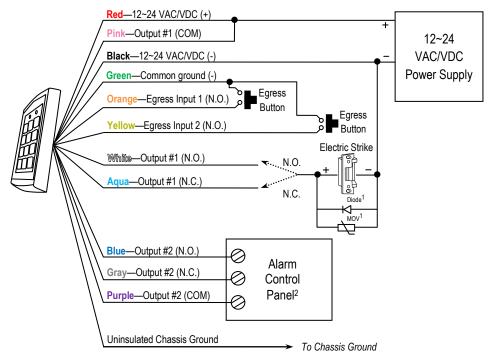
- Find a suitable location to mount the keypad. Do not install where it will be too high or too low for most users to operate the keypad.
- Using the included Torx wrench, unscrew the security screw located on the bottom of the keypad's mounting bracket.
- 3. Carefully remove the keypad from the mounting bracket.
- Drill holes in the 4 designated mounting points located on the mounting bracket. If needed, use the included mounting template.
- 5. Using the 4 included mounting screws, secure the mounting bracket to a wall or other mounting surface. If mounting to brick or drywall, it may be necessary to use the included screw anchors.
- If the installation is using surface wiring, mount the keypad to a single-gang box using the 2 single-gang box mounting points.
- Connect each of the wires that will be used to operate the keypad according to the wiring diagram on page 4.
- Reattach the keypad to the mounting base.
- 9. Use the included Torx wrench to tighten the security screw and secure the keypad to the base.

Sample Wiring and Application

(SK-1323 series shown. All examples apply to both the SK-1323 and SK-2323 series.)

Note: Sample applications are based on VDC power supplies.

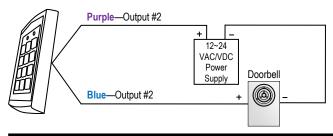
Connection to Lock Device and Alarm System Arm/Disarm Control



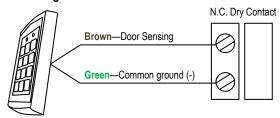
- Connect included diode and metal oxide varistor (MOV) as close as possible and in parallel with an electric strike. This absorbs possible electromagnetic interference to prevent operation of the strike from damaging the keypad. Do not connect a diode or MOV when using electromagnetic locks.
- Output #2 controls the arm/disarm of the alarm control panel. Consult the alarm control panel manual for more information.

Connecting to a Doorbell

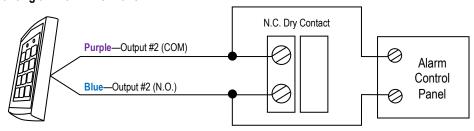
If the keypad is connected to a doorbell, press ***** to activate the doorbell. The doorbell output lasts for 1 second. For instructions on how to program the keypad for doorbell, see page 13, *Programming the Output #2 Function*.



Door Sensing

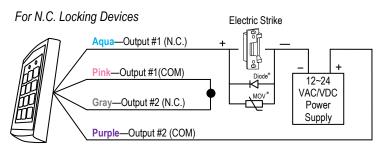


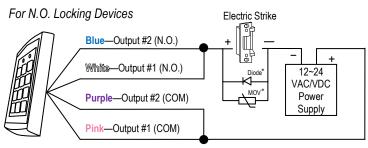
Shunting an Alarm N.C. Zone



Door-Hold-Open Code

Output #1 and Output #2 can be wired together in such a way that electric lock devices remain unlocked as long as Output #2 is activated.





^{*} Connect included diode and metal oxide varistor (MOV) as close as possible and in parallel with an electric strike. This absorbs possible electromagnetic interference to prevent operation of the strike from damaging the keypad. Do not connect diode or MOV when using electromagnetic locks.

User Control Chart

8

Output #1: Toggle / Timed (___secs.) Programmed For___

Access Code

User Name																				
USERID																				
Access Code 54321																				
User Name SAMPLE – John Doe																				
USER ID 001																				

secs.) Programmed For Output #2: Doorbell / Toggle / Timed (_

•))	
USER ID	User Name		Access Code		ŝ
00					
10					
70					
03					
70					

NSE	USER ID	User Name	Access Code
0	05		
0	90		
07	7		
0	80		
C	60		

Note: Copy this sheet to use for your installations.

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Programming Instructions

- 1. Codes are programmed to have 2~6 digits in length. All codes must be the same length.
- Before inputting any of the following, enter Programming Mode by entering the Master Code twice. The default Master Code is 1234.

To enter Programming Mode, enter 1 2 3 4 1 2 3 4

- 3. To exit Programming Mode, press the # key.
- 4. The keypad will exit Programming Mode if no keys are pressed for 30 seconds.

Programming Tips

- Program a new Master Code immediately.
- Take note of the keypad status LEDs
 - o Right LED Solid Green: Standby Mode
 - o Right LED Solid Orange: Programming Mode
 - o Left LED Solid Green / Right LED Flashing Orange: Awaiting code/card entry
- If you are unsure of which mode the keypad is in, press # until the right LED is green. The keypad is now in the Standby Mode. Enter the master code twice to return to Programming Mode.

First Time Keypad Use

Take these steps the first time the keypad is programmed.

A. Enter Programming Mode

Enter: 1 2 3 4 1 2 3 4 (Default Master Code is 1234).

B. Program Code Length

WARNING: After a new code length is programmed, all user codes will be deleted and master code will be reset.

- 1. Enter Programming Mode by entering the Master Code twice. (Default Master Code is 1234).
- 2. Enter * 9 0 4
- 3. Enter the desired code length. This must be a number from 2~6.
- 4. Exit Programming Mode by pressing # .

Note: The Master Code will reset depending on the programmed code length. These will be the new Master Codes after the code length is reset:

Code Length	New Master Code
2 digits	12
3 digits	123
4 digits	1234

Code Length	New Master Code
5 digits	12345
6 digits	123456

C. Program the Master Code

- 1. Enter Programming Mode by entering the Master Code twice. (Default Master Code is 1234).
- 2. Enter 🛣 3
- 3. Enter the new Master Code twice. The Master Code may not be the same as a user code.

Example: If the desired new Master Code is 4321, enter: 4 3 2 1 4 3 2 1

4. Exit Programming Mode by pressing #.

^{*}SK-2323-SPQ and SK-1323-SPQ only.

D. Program the Master Card (SK-1323-SPQ and SK-2323-SPQ only)

In addition to a Master Code, a Master Card can also be programmed. Swiping a Master Card will give direct access to Programming Mode.

- 1. Enter Programming Mode by entering the Master Code twice. (Default Master Code is 1234)
- 3. On the keypad, enter * 7.
- 2. If the left LED is solid green and the right LED is flashing orange, a Master card is already programmed. Clear it by entering ** . The keypad will beep in confirmation and the left LED will start flashing green.
- 4. Swipe a proximity card (PR-K1S1A or similar). This card is now the Master Card.
- 5. Exit Programming Mode by pressing #.

E. Setting the Output #1 Access Mode*

DEFAULT: User card OR user code.

- 1. Enter Programming Mode by entering the Master Code twice.
- 2. Enter * 0.
- 3. Enter one of the following:
 - 0 0 User card ONLY
 - ① 1 Either user card OR user code (DEFAULT)
 - 0 2 User card AND user code

Note: Deleting all users is recommended before changing the access mode to user card with user code. See page 14, Deleting All Users.

4. Exit Programming Mode by pressing #.

Programming Output #1

Each Output #1 user can be programmed to have a user code and a user card.*

Note – For all of the following programming functions, the keypad must be in Programming Mode. To enter Programming Mode, enter the Master Code twice.

A. User Code Only

- 1. Enter a user ID number. (0 0 0 to 9 9 9)
- 2. If the left LED is red, previous user data exists. Clear it by entering 🛣 🛣 . The keypad will beep in confirmation and the left LED will turn green.
- 3. Enter a new user code.
- 4. To program the next user, repeat from step 1 in section A, B, or C.
- 5. Exit Programming Mode by pressing # .

B. User Card Only*

- 1. Enter a user ID number. (0 0 0 to 9 9 9)
- 2. If the left LED is red, previous user data exists. Clear it by entering 🛣 🛣 . The keypad will beep in confirmation and the left LED will turn green.
- 3. Swipe a new user card.
- 4. Return to Programming Mode by pressing $\overline{\#}$.
- 5. To program the next user, repeat from step 1 in section A, B, or C.
- 6. Exit Programming Mode by pressing # again.

^{*}SK-2323-SPQ and SK-1323-SPQ only.

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Continued from page 11.

C. User Card and Code*

- 1. Enter a user ID number. (0 0 0 to 9 9 9)
- 2. If the left LED is red, previous user data exists. Clear it by entering 🛣 🛣 . The keypad will beep in confirmation and the left LED will turn green.
- 3. Swipe a new user card.
- 4. Enter a new user code.
- 5. To program the next user, repeat from step 1 in section A, B, or C.
- 6. Exit Programming Mode by pressing #.

Programming Output #2

Each Output #2 user may only have a user code OR a user card programmed.

Note – For all of the following programming functions, the keypad must be in Programming Mode. To enter Programming Mode, enter the Master Code twice.

A. Programming an Output #2 User Code

- 1. Enter ***** 4.
- 2. Enter a user ID number. (0 0 to 0 9)
- 3. If the left LED is red, previous user data exists. Clear it by entering 🛣 🛣 . The keypad will beep in confirmation and the left LED will turn green.
- 4. Enter a new user code.
- 5. To program the next user, repeat from step 2 in section A or B.
- 6. Return to Programming Mode by pressing # .
- 7. Exit Programming Mode by pressing # again .

B. Programming an Output #2 User Card*

- 1. Enter 🗶 4.
- 2. Enter a user ID number. (0 0 to 0 9)
- 3. If the left LED is red, previous user data exists. Clear it by entering 🛣 🛣 . The keypad will beep in confirmation and the left LED will turn green.
- 4. Swipe a new user card.
- 5. To program the next user, repeat from step 2 in section A or B.
- 6. Return to Programming Mode by pressing #.
- 7. Exit Programming Mode by pressing ## again.

Deleting or Changing Users and Cards

Deleting or Changing the Master Card*

Step 1

Step 2

Enter:

Delete the existing Master Card by entering:

* 7

* *

Step 3

Swipe a new Master Card.

or

Exit Programming Mode by entering #.

^{*}SK-2323-SPQ and SK-1323-SPQ only.

Deleting or Changing an Output #1 User

Step 1

Enter a user ID number.

0 0 0 to 9 9 9

Step 2

Delete existing user by entering:

* *

Step 3

Swipe a new user card.*

Enter a new user code.

XXXXX

by entering #

This option deletes Output #1 users one at a time.

To delete all users, see page 14, Deleting All Users.

Return to Programming Mode

Deleting or Changing an Output #2 User

Step 1 Enter:

***** 4

Step 2

Enter a user ID number. 0 0 to 0 9

Step 3

Delete existing user by entering:

Step 4

Swipe a new user card.*

Enter a new user code.

or

Return to Programming Mode by entering #

This option deletes Output #2 users one at a time.

To delete all users, see page 14, Deleting All Users.

Additional Programming

Programming the Output #1 Timer

DEFAULT: 1 second

Step 1

Step 2

Enter: **※** 1 For toggle mode, enter:

0 0

or

For timed output, enter:

0 1 to 9 9

01 to 99 is the number of seconds Output #1 will activate.

Programming the Output #2 Function

Output #2 can be activated via 🔀 or through user codes. Use the following steps to program its function.

DEFAULT: User codes

Step 1 Enter:

***** 2

Step 2

For user codes, enter:

0 1

For doorbell, enter:

 When Output #2 is programmed for doorbell, press to activate doorbell. Doorbell output lasts 1 second.

Programming the Output #2 Timer

DEFAULT: 1 second

Step 1

Enter: ***** 5

Step 2 For toggle mode, enter:

00

or

For timed output, enter:

0 1 to 9 9

01 to 99 is the number of seconds Output #2 will activate.

Programming the Optical Tamper

DEFAULT: OFF

Step 1

Fnter: * 6 Step 2

To turn optical tamper OFF, enter:

0 1

or

To turn optical tamper ON, enter:

^{*}SK-2323-SPQ and SK-1323-SPQ only.

Resetting the Keypad

NOTE: Resetting the keypad will cause some or all programmed data to be lost. Do not perform either of these steps unless it is absolutely necessary.

Deleting All Users

Enter:

* 8 8 8

IMPORTANT: Once key entry is made, all user codes and user cards will be deleted and the keypad will return to Programming Mode. The Master Code and all other programming settings will remain the same. To restore factory settings, see *Restore Factory Settings* below.

Restore Factory Settings

Enter:

* 8 9 9

IMPORTANT: Once key entry is made, keypad will return to factory default settings. No users will be present and the Master Code will be 1234. For SK-2323-SPQ and SK-1323-SPQ, Output #1 Access Mode will be set to user codes or user cards

Manually Resetting the Master Code

If the Master Code has been forgotten or does not work, the following steps can be taken to reset the Master Code:

- 1. Disconnect power from the keypad.
- 2. Hold down the # key.
- 3. While holding the # key, reconnect the power.
- 4. After 3 seconds, the keypad will beep to confirm a successful reset.

Note: Manually resetting the Master Code will only reset the Master Code. It will not affect the Master Card, User Code, or any other saved data. To delete the Master Card, see page 12, *Deleting or Changing the Master Card*.

Note: The Master Code will reset depending on the programmed code length. These will be the new Master Codes after the code length is reset:

Code Length	New Master Code	
2 digits	12	
3 digits	123	
4 digits	1234	

Code Length	New Master Code	
5 digits	12345	
6 digits	123456	

Factory Defaults

Code Length	4 digits
Master Code	1234
Output #1 Access Mode*	User codes OR user cards
Output #1 User Codes	None
Output #2 User Codes	None
Output #1 Timer	1 second
Output #2 Timer	1 second
Output #2 Function	User codes
Tamper Alarm	OFF

*SK-1323-SPQ and SK-2323-SPQ only

Using the Keypad

For programming instructions, see page 10, *Programming Instructions*.

Entering a User Code

- To activate either Output #1 or Output #2, enter the user code directly into the keypad.
- Do not enter the user ID number. The user ID number is only used during Programming Mode.

Example: If a user code for Output #1 is 4321, enter 4 3 2 1 to trigger Output #1.

Using a User Card

To activate either Output #1 or Output #2 with a user card, hold the user card in front of the keypad.
 The keypad will beep once the user card has been read.

Using a User Card with a User Code

If Output #1 is programmed to accept a user card with a user code, swipe the user card. Immediately
enter the user code. This may be done in reverse order.

Wrong Code Lockout

- If a wrong code is entered or a wrong card is swiped 5 consecutive times, the keypad will go into lockout for 1 minute. During this time, no codes can be entered and no cards can be swiped.
- Pushing buttons or swiping cards during lockout will extend the lockout time.

Troubleshooting			
The keypad will not accept user codes or user cards.	 Make sure the Output #1 Access Mode is programmed to accept user codes. (See page 11, Setting the Output #1 Access Mode.) If an incorrect card or code has been entered, the keypad may be in Wrong Code Lockout. Wait 1 minute. (See page 15, Wrong Code Lockout.) 		
The keypad will not program new user codes or user cards.	Before inputting new code or card, check the left LED. If it is red, previous user data exists. Press to delete.		
The keypad will not program a new Master Card.	Before inputting new code or card, check the left LED. If it is solid green, a Master Card is already programmed. Press 🛣 to delete.		
Programming option will not work.	It is likely the keypad is not in the correct mode. Press #until the right LED turns green to put the keypad in Standby Mode. Enter Programming Mode and begin again.		
Output #2 will not activate.	Make sure that Output #2 is programmed for the correct function. (See page 13, Programming the Output #2 Function).		
Egress input is not working.	Check that the egress device is wired correctly. (See page 4, Wiring Diagram).		
Relay output will not stop.	Make sure that the output is not set for toggle mode. (See page 13, Programming the Output #1 Timer and Programming the Output #2 Timer).		

Quick Reference Guide

Note: For complete programming instructions, please see page 10, *Programming Instructions*.

Operation Function	Action	
Enter an Output #1 user code	Directly enter on the keypad	
Enter an Output #2 user code	Directly enter on the keypad	
Ring doorbell	Press 🛣 (if programmed)	
Enter Programming Mode	Enter the master code twice	
Exit Programming Mode	Press #	
Reset or restore the keypad	Please see full instructions on page 14	
Program the proximity reader	Please see full instructions on pages 10 and 13	

The following functions are performed after entering Programming Mode.

Operation Function	Step 1	Step 2	Step 3
Change the master code	Enter 🔀 3	Enter the new Master Code twice	
Program a new Output #1 user code	Enter a 3-digit user ID (from 000~999)	Enter a user code.	
Program a new Output #2 user code*	Enter 🔀 4	Enter a 2-digit user ID (from 00~09)	Enter a new user code.
Deleting an Output #1 user *	Enter a 3-digit user ID (from 000~999)	Enter 🔀 🔀	
Deleting an Output #2 user *	Enter 🔀 4	Enter a 2-digit user ID (from 00~09)	Enter 🔀 🛣
Set Output #1 timer	Enter 🔀 1	Enter number of seconds (from 00~99)	
Set Output #2 timer	Enter 🔀 5	Enter number of seconds (from 00~99)	
Set Output #2 function	Enter 🔀 2	Enter: 01 for user codes 02 for doorbell	
Set tamper alarm	Enter 🔀 6	Enter: 01 for OFF 02 for ON	

^{*}After programming these functions, press 囲 to return to Programming Mode.

WARRANTY This SECO-LARM product is warranted against defects in material and workmanship while used in normal service for a period of one (1) year from the date of sale to the original consumer customer. SECO-LARM's obligation is limited to the repair or replacement of any defective part if the unit is returned, transportation prepaid, to SECO-LARM. This Warranty is void if damage is caused by or attributed to acts of God, physical or electrical misuse or abuse, neglect, repair, or alteration, improper or ahormal usage, or faulty installation, or if for any other reason SECO-LARM determines that such equipment is not operating properly as a result of causes other than defects in material and workmanship. The sole obligation of SECO-LARM, and the purchaser's exclusive remedy, shall be limited to replacement or repair only, at SECO-LARM's option. In no event shall SECO-LARM be liable for any special, collateral, incidental, or consequential personal or property damages of any kind to the purchaser or anyone else.

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