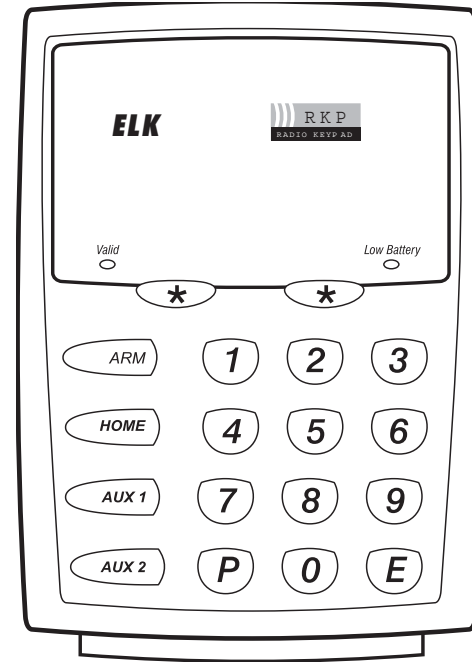


RKP PROGRAM OPTIONS QUICK REFERENCE

RKP OPTION	DESCRIPTION	DEFAULT
P09E 0E	Send User IDs	
P09E 1E-15E	Sent Learn Message for codes 1 to 15	
P10E	Enable Radio Encryption	ON
P11E	User Code 1 (Master Code)	123
P12E	User Code 2	
P13E	User Code 3	
P14E	User Code 4	
P15E	User Code 5	
P16E	User Code 6	
P17E	User Code 7	
P18E	User Code 8	
P19E	User Code 9	
P20E	User Code 10	
P21E	User Code 11	
P22E	User Code 12	
P23E	User Code 13	
P24E	User Code 14	
P25E	User Code 15	
P62E 3E	Home Mode Shortcut	ON
4E	Enable Panic	ON
5E	Arming Shortcut	ON
7E	Future Option (Not Used)	N/A
P97E	Restore Factory Defaults (This defaults all options including user codes and installer code)	
P98E	Clear ONLY User Codes 1 to 15	
P99E	Installer Code	000000

ElkGuard RKP Radio Keypad



ELK106066 (RKP) RADIO KEY

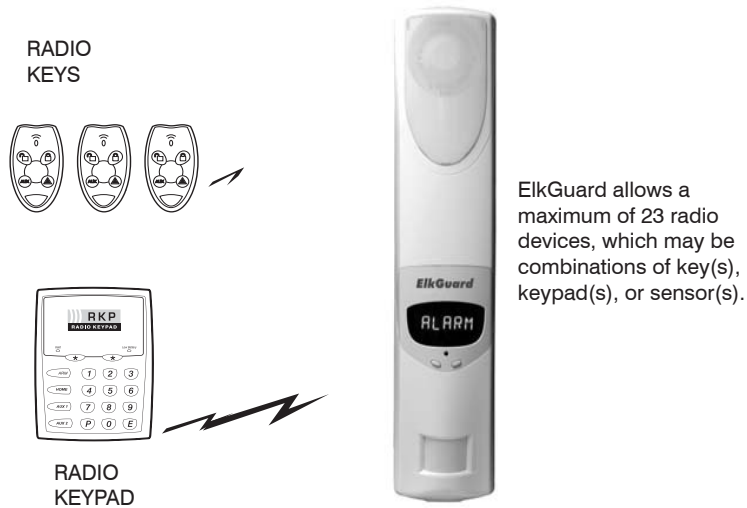
Installation and Programming Manual

REV 1.3

SPECIFICATIONS

Dimensions	90mm W x 135mm H x 27mm D (with lid closed).
Compatibility	106057 and 106058 ElkGuard Wireless Self-Contained Control
Keypad functions	Arming by User ID Disarming by User ID Home (Stay) mode Panic alarm
Audible indicator	Onboard beeper for feedback: keypress, valid command, error.
Visual indicators	VALID LED: indicates program modes, valid signal. LOW BATTERY LED: indicates RKP low battery, option enabled (program mode).
Battery	9V Lithium (Ultralife U9VL)
Quiescent current draw	11 μ A
Radio transmitter.....	SAWR stabilized
Radio frequency.....	303.875MHz
Transmit power.....	100 μ W PEP

TYPICAL SYSTEM



ElkGuard allows a maximum of 23 radio devices, which may be combinations of key(s), keypad(s), or sensor(s).

RKP PROGRAM OPTIONS

OPTION P97E = FACTORY DEFAULT ALL

From Installer Program Mode it is possible to clear all program option back to factory default values by pressing P + 97 + E.

This will also clear (erase) all added user codes stored in the RKP and restore the Master User Code to 123 and the Installer code to 000000.

OPTION P98E = FACTORY DEFAULT USER CODES ONLY

From the Installer Program Mode it is possible to clear all User Codes back to factory default values by pressing P + 98 + E. User Code 1 will be restored to 123. The installer code will not be affected.

OPTION P99E = PROGRAM THE INSTALLER CODE

The Installer Code can be 3–6 digits in length.

TO PROGRAM:

1. Access Installer Program Mode [pg 8]
2. Press P 9 9 E
3. Enter New Code.
4. Press E
5. Enter New Code a second time
6. Press a final time to store the new code.

OPTION P62E = SHORTCUTS

This is actually one (1) option with multiple sub-options, numbered 3E thru 7E. Each is explained below:

HOME (STAY) MODE SHORTCUT

[Program option P62E sub-option 3E]

*** (factory default setting is OFF) ***

Enables the use of **HOME** **E** to enter Home (Stay) mode quickly.

To Program:

1. Access User Program Mode [pg 8], then immediately access Installer Program Mode [pg 8 also]
2. Press P 6 2 E to jump to this option
3. Press 3 E to toggle sub-option On & Off. Observe the Low Battery light

Low Battery Light Off = P62E 3E is Off
Home (Stay) Mode shortcut is disabled

Low Battery Light On = P62E 3E is On
Home (Stay) Mode shortcut is enabled

PANIC SHORTCUT

[Program option P62E sub-option 4E]

*** (factory default setting is OFF) ***

Enables the use of ***** **E** to send a Panic alarm.

To Program:

1. Access User Program Mode [pg 8], then immediately access Installer Program Mode [pg 8 also]
2. Press P 6 2 E to jump to this option
3. Press 4 E to toggle sub-option On & Off. Observe the Low Battery light

Low Battery Light Off = P62E 4E is Off
Panic shortcut is disabled

Low Battery Light On = P62E 4E is On
Panic shortcut is enabled

ARM (AWAY) MODE SHORTCUT

[Program option P62E sub-option 5E]

*** (factory default setting is OFF) ***

Enables the use of **ARM** **E** to arm the panel.

To program:

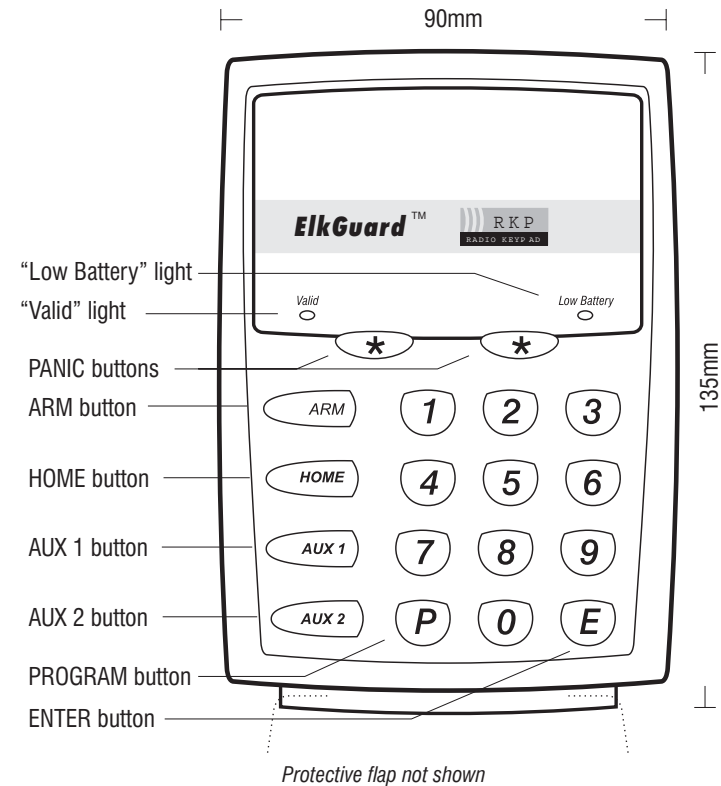
1. Access the User Program Mode [pg 8], then immediately access the Installer Program Mode [pg 8 also]
2. Press P 6 2 E to jump to this option
3. Press 5 E to toggle sub-option On & Off. Observe the Low Battery light

Low Battery Light Off = P62E 5E is Off
Arm (Away) Mode shortcut is disabled

Low Battery Light On = P62E 5E is On
Arm (Away) Mode shortcut is enabled

UNUSED OPTIONS (IGNORE)

[Program location P62E sub-options 6E &



The ELK106066 Radio Keypad (RKP) is a wireless, battery operated keypad designed for use with any the ElkGuard Self-Contained Alarm and other "future" Elk Wireless Receivers capable of receiving the ~303.875MHz frequency and designated with the "N" protocol.

The Radio Keypad provides remote control of Arming, Disarming, Monitor (Home) modes and Panic facility.

Up to 15 User Codes can be programmed in the RKP. The transmission from an RKP can include the ID of each User, however the control or receiver may not be able to decode and/or translate the User ID.

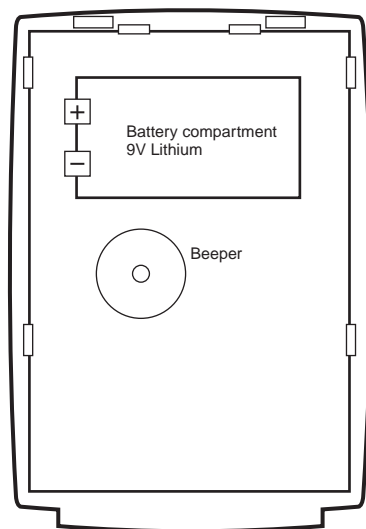
The RKP Radio Keypads can be:

Fixed - Surface or Wall mounted without the need for an electrical box.

Portable - carried from room to room, kept in a vehicle, bedside table, etc.

MOUNTING THE RKP

- Unsnap the RKP body from the back housing by pushing the top clips down with a small screwdriver and pulling the RKP body forward.
- If the RKP is being wall mounted; screw the back housing to the wall using the four mounting holes provided.
- At this stage, the RKP body can be hand held to insert the 9V battery as part of the powering up process.
- Re-attach the RKP body to the back housing by first engaging the bottom clips and swinging the top closed. Push hard to ensure the top clips



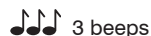
RKP BODY REAR

KEYPAD BEEPS

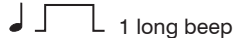
ANY KEYPRESS



VALID COMMAND



ERROR



POWER REQUIREMENT

The RKP is powered by a 9V Lithium battery. Battery life is approximately five years under normal conditions and use.

BACKLIGHTING

The keys are LED backlit. Backlighting turns on when any key is pressed and, to conserve power, turns off 5 seconds after the last key is pressed.

KEYPAD LIGHTS

	VALID	LOW BATTERY
OFF	Normal	Normal
ON	User Program Mode	Option Enabled (In Installer Program mode)
FLASHING	Installer Program Mode	RKP battery is low
1 FLASH	Valid Signal Transmitted	

RKP PROGRAM OPTIONS

OPTION P09E = SEND USER IDS

This option controls whether the RKP is to send (transmit) individual User IDs to ElkGuard or whether it is to send a common ID, regardless of which User code was entered. [pgs 6 & 7]

TO PROGRAM:

1. Access Installer Program Mode [pg 8]
2. Press P 0 9 E and then 0 E.
3. Press 0 E to toggle this option On & Off. Observe the Low Battery light

Low Battery Light Off = P09E 0E is Off
No individual User IDs are sent. A common ID is sent regardless of the user code.

This is the best option if you have no need for open/close identity. It also preserves ElkGuards wireless channels for other sensors.

Low Battery Light On = P09E 0E is On
Each RKP User ID can be determined at the ElkGuard.

NOTE: Although 15 User IDs can be enrolled and sent by the RKP, ElkGuard can only accept a max. of 23 TOTAL devices, inclusive of sensors.

The User IDs must be "learned" into the ElkGuard as explained on page 7.

OPTIONS 011E - P25E = USER CODES 1-15

The RKP can be programmed with fifteen (15) user codes of 3-6 digits in length.

NOTE: User Codes cannot start with the digit 0.

TO PROGRAM A USER CODE:

- * Identify the Option No for the User Code *
1. Access the User Program Mode [pg 8]
 2. Press P + [Option No of the User Code]
 3. Press E + [New code digits]
 4. Press E again + [New code digits]
 5. Press E once more to store new code.

Low Battery light OFF = The code is blank

Low Battery light ON = The code is currently programmed (active).

TO CLEAR (ERASE) A USER CODE:

1. Access the User Program Mode [pg 8]
2. Press P + [Option No. of the User Code]
3. Press E + 0
4. Press E again + 0
5. Press E a final time to complete

USER CODES / USER IDs DEFINED.

User codes are stored only in the RKP itself. In no cases are the codes ever transmitted to the panel.

However, the panel can receive an encrypted message representing the User ID of the code being used.

OPTION P10E = ENCRYPT RADIO

Factory default for this option is On, as indicated by the Low Battery Light being On. Do not change this option.

BASIC STEPS FOR PROGRAMMING THE RKP

The RKP provides for two (2) modes or levels of programming.

USER PROGRAM MODE

The User Program Mode permits the Master User (Owner, Manager, etc.) to add, change, or delete any of the fifteen (15) User Codes.

TO ENTER USER PROGRAM MODE:

Press **P** + **[Master Code]** + **E**

The "Valid" light should turn on and stay on while the User Program mode is active.

INSTALLER PROGRAM MODE

The Installer Program Mode is an additional level reserved just for the Installer. This mode allows the installer to program all of the RKP options, including the User Codes. Because it's an additional level, it will be necessary to first enter User Program Mode before entering the Installer Program Mode.

TO ENTER INSTALLER PROGRAM MODE:

From the User Program mode

Press **P** + **[Installer Code]** + **E**

The "Valid" light should change from solid to flashing and remain flashing while the Installer program mode is active.

EXITING FROM PROGRAM MODE

From either of the Programming modes...

Press **P** + **E**

The "Valid" light should turn off.

PROGRAMMING OPTIONS

The RKP program options are detailed on the back page (page 12) of this manual.

NOTE: The RKP will automatically drop out of User or Installer Program Mode to the regular Operating Mode 3 minutes after the last key press.

POWER UP DEFAULT:

To default the RKP on power up, insert the battery while pressing the ARM and E buttons together.

This resets all options to factory default values. The RKP will then be in normal operating mode.

PROGRAM MODE VISUAL LIGHTS:

While in the Programming Mode(s) the LED indicators for "Valid" and "Low Battery" are used to provide visual indications.

VALID Light

ON = User program mode

FLASHING = Installer Program mode

OFF = Normal operating mode

For program options P09E, P10E and P62E the Low Battery light is used as follows:

LOW BATTERY light

ON = The option is ON

OFF = The option is OFF

For other program options the Low Battery light may or not be used. See specific options on following pages

OPERATION

ARMING (AWAY) MODE

Press **(ARM)** + **[USER CODE]** + **E**

OR

Press shortcut **(ARM)** + **E**
(Option P62E 5E must be enabled, pg 10)

Shortcut arming will ID as User Code 1.

DISARMING

Press **[USER CODE]** + **E**

Note: Five incorrect attempts to Disarm will transmit a Panic Alarm as RKP User Code 1.

ARMING (STAY) MODE

Press **(ARM)** + **[USER CODE]** + **E** two (2) times.

OR

Press shortcut **(ARM)** + **E** two (2) times.
(Option P62E 5E must be enabled, pg 10)

Shortcut arming will ID as User Code 1.

ARMING (STAY 2) MODE

Press **(ARM)** + **[USER CODE]** + **E** three (3) times.

OR

Press shortcut **(ARM)** + **E** three (3) times.
(Option P62E 5E must be enabled, pg 10)

Shortcut arming will ID as User Code 1.

HOME MODE **(HOME)**

This special key may be used to shortcut arm the control to the STAY mode. It does NOT permit arming to the STAY2 mode.

Press **(HOME)** + **E**
(Option P62E 3E must be enabled, pg 10)

Shortcut arming will ID as User Code 1.

PANIC **(*)**

For a Panic alarm, press **(*)** **(*)**
[together at the same time]

OR **(*)** followed by **(E)** (Requires program option P62E 4E to be enabled).

Panic Alarm will ID as User Code 1.

AUX 1 **(AUX 1)**

Press **AUX 1** + **E**

This function is not currently supported by ElkGuard or any Elk Controls or receivers. [Future Use]

AUX 2 **(AUX 2)**

Press **AUX 2** + **E**

This function is not currently supported by ElkGuard or any Elk Controls or receivers. [Future Use]

ENROLLING RKP WITH THE ELKGUARD CONTROL

There are two methods for enrolling the RKP with ElkGuard. The first (and simplest) method results in the RKP sending arm and disarm commands without identifying which User Code was pressed at the RKP. The second method requires a little more effort and time but the benefit is the RKP will send arm and disarm commands to ElkGuard with a specific User code ID. The User IDs must be "mapped" into the ElkGuard Key locations and mapping must be performed sequentially starting with the first user or "Key" location.

METHOD 1. NO USER ID SENT (Individual users not identified)

Program option P09E 0E set to OFF
* (factory default setting is OFF) *

No matter how many User Codes are programmed, or which code is pressed, RKP only reports its arm/disarm commands to ElkGuard with a single User ID. The user ID will be the ElkGuard "Key" location where the RKP has been enrolled. This method involves simply applying power to the RKP (installing the battery) WHILE the ElkGuard is in the "Ready" to learn new device mode.

Process Overview:

Program option P09E 0E MUST be set to OFF. Remove (disconnect) the RKP's battery. Place the ElkGuard into the learn and "Ready" mode (see step by step below). Plug the battery into the RKP and wait. The RKP will send its Learn Message and its Valid light will flash once.

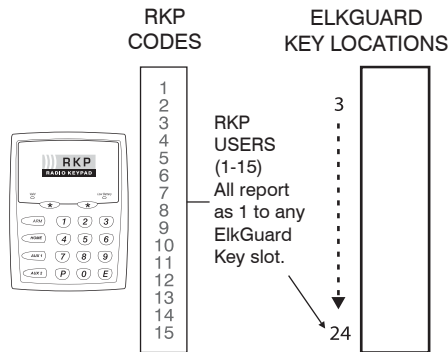
STEP BY STEP INSTRUCTIONS

1. Turn ElkGuard Off and then back On with the master keyswitch. The display should begin flashing "LEARN". Move quickly to step 2 while still flashing. If too much time is taken it will be necessary to cycle the Off and then back On.
2. Using any "enrolled" keyfob, press the right (Lock) button while "LEARN" is still flashing. "Ready" should now display.
3. Plug in the battery on the RKP Keypad. Wait while the learn message is sent.
4. Within a few seconds, ElkGuard should display "KEY X", with "X" being the key ID or location where this RKP has been enrolled. The RKP is now enrolled.
5. The definition (default) will be "Key".
6. Take ElkGuard out of programming mode using the "P-EXIT" function.

7. ElkGuard and the RKP keypad are now ready for use. The RKP will arm and disarm by transmitting an RF signal whenever ANY valid User Code sequence is pressed.

For more specific information on the ElkGuard control, refer to its Installation Instructions.

SEND USER IDS DISABLED (Default)
Program Option P09E 0E set to OFF
(Indicated by Low Battery Light being Off)



RKP WILL TRANSMIT A COMMON USER ID REGARDLESS OF WHICH USER CODE IS PRESSED.

Important Note: By factory default the first two (2) key locations in ElkGuard's are pre-enrolled with 4 button Keyfob. Therefore the first location for enrolling the RKP is Key 3. Anytime a valid code is entered at the RKP it will show up as Key 3 in ElkGuard (or whatever key location you chose to enroll the RKP).

ENROLLING RKP WITH THE ELKGUARD CONTROL

METHOD 2. SEND USER IDS (User IDs are sent to control)

Program option P09E 0E set to ON.

This allows each RKP User Code (ID) to be sent or "learned" into ElkGuard. ElkGuard has a limit of 23 wireless devices and each User ID consumes 1 device location.

While this method requires more effort and time, the benefit is that ElkGuard will receive arm and disarm commands with the identify of the User (code) ID that was pressed. This is beneficial for event logging of activity.

Process Overview:

Follow the step by step instructions below. Make certain to program the RKP with all the User ID Codes required. Then place ElkGuard into the "Learn / Ready" mode, and send the "Send User ID command" for the first User ID. Additional User IDs can be learned by placing ElkGuard back into the "Learn / Ready" mode and sending the "Send User ID command" for that User ID. Example: Press P 09 E 1 E to learn User ID 1, press P 09 E 2 E to learn User ID 2, etc. Repeat for codes 3 and beyond.

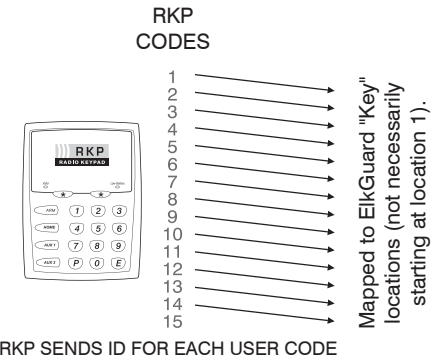
STEP BY STEP INSTRUCTIONS

1. Place the RKP Keypad into Installer Program Mode by entering the User Program Mode sequence followed immediately by the Installer Program Mode sequence. [see pg 8]
2. Set program option P09E 0E to On.
3. Program each User ID in the RKP as needed. [see pg 9]
4. Turn ElkGuard Off and back On with the master keyswitch. The ElkGuard should begin flashing "LEARN". Move quickly to the next step, otherwise the ElkGuard will time out to the run mode. (10 seconds).
5. Using any "enrolled" keyfob, press the right (Lock) button while "LEARN" is still flashing. ElkGuard should now display "Ready".
4. On the RKP press **P 09 E (the option for send User ID) followed by 1 E** (User 1 send ID command). The RKP Low Battery light should flash 3 times after each learn message is sent.

5. ElkGuard should "bing" several times and display "KEY X", with "X" being the key ID or location where this User ID has been enrolled.
6. For remaining User ID codes repeat steps 1 thru 3 and replace the next to last digit with the next User ID number.
7. For future service and maintenance, keep a record of the location where each User is programmed.
8. To exit program mode, press P + E.

SEND USER IDS ENABLED

Program Option P09E 0E set to ON
(Indicated by Low Battery Light being On)



RKP SENDS ID FOR EACH USER CODE

What is a Learn Message? - It is a unique 6 digit message string the RKP sends when you program (or "learn") the RKP or User IDs into the control.

HOW TO SEND A 'LEARN MESSAGE'

Without Sending Any User IDs:
Insert the RKP battery and the Learn Message for RKP (User ID 1) is automatically sent.

To Include (Send) User IDs:
Enter Installer Program Mode on the RKP and then press P 09 E 1E, or 2E, or 3E, etc for each User ID to be sent. [NOTE: The program option for "Send User IDs" (P09E 0E) must be enabled].

The RKP Low Battery light should flash 3 times each time a learn Message is sent.