



D-303015

English

KP-140 PG2/KP-141 PG2

Portable Remote Wireless 2-Way Keypad



Visonic

User's Guide

1. INTRODUCTION

KP-140 PG2 and KP-141 PG2 are 2-way PowerG wireless keypads for the PowerMaster family control panels. The KP-141 PG2 is the same as the KP-140 PG2 but also includes a built-in proximity RFID tag reader. Both keypads enable most common everyday user functions:

- Arm and Disarm the alarm system.
- Initiate Emergency, Fire and Panic alarms.
- Control X-10 devices and PGM output (not to be enabled in UL Listed product).
- Perform one of the AUX (auxiliary) predefined functions.
- Review system Status.

When authorization is required, for example, to arm or disarm the system, the user can enter his PIN Code via the built-in numerical keypad or alternatively present a valid proximity tag to the built-in tag reader (only with KP-141PG2) located at "N" in Figure 1. In addition, the KP-140 PG2/KP-141 PG2 keypad supports panels featuring Partitions. Partitioning allows you to have up to three controllable areas; each partition can be armed and disarmed independently regardless of the status of the other two partitions by the same or different users (see buttons marked "E" in Figure 1). The keypads can be wall mounted using the supplied bracket or be used as portable units. For compliance with various international standards, the keypads are equipped with two tamper switches that can be configured to detect when the cover of the battery compartment is removed or when the unit is removed from its mounting bracket.

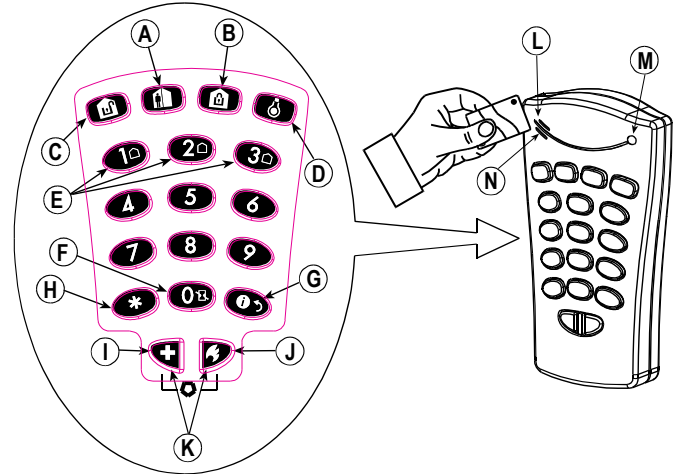
Note: For UL Listed Product, unit is not intended to be portable.

Other features of the KP-140 PG2/KP-141 PG2 keypad include:

- Status, alarm memory, trouble and Ready / Not-Ready indications.
- Automatic reporting of low battery voltage.
- Keypad back lighting.
- Exit/entry beeps
- Tag reader can also be used to enroll proximity tags into the panel.
- Long-life 4-5 years battery life expectancy (for typical use), 3 VDC lithium battery.

Note: For UL Listed product, the proximity feature may only be used to arm or disarm the system.

Note: For UL Listed product, Models KP-140 PG2 and KP-141 PG2 are for Supplemental Use only.

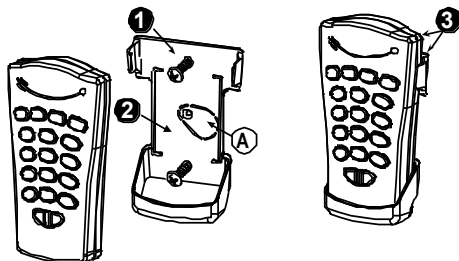


- A. ARM HOME
- B. ARM AWAY
- C. DISARM
- D. X-10 / PGM
- E. PARTITION SELECTION
- F. ARM INSTANT
- G. STATUS / ESCAPE
- H. AUX / ENROLLMENT
- I. EMERGENCY ALARM
- J. FIRE ALARM
- K. PANIC ALARM
- L. BUZZER INDICATOR
- M. LED INDICATOR
- N. TAG READER

Figure 1 - External View

2. INSTALLATION

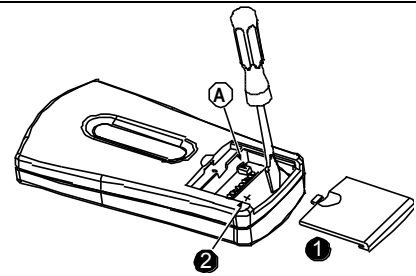
2.1 Mounting and Battery Replacement



1. Drill 2 holes in mounting surface, insert wall anchors and fasten the bracket with 2 screws.
2. Place the "Visual Indications" sticker within the frame.
3. Slide the keypad into the bracket.

A. Magnet (activates back tamper when bracket is removed from the wall).

Figure 2 - Mounting



1. Slide out the cover.
2. Replace the battery (verify proper polarity) and close the cover.

A. Battery compartment tamper switch

Caution!

Risk of explosion if battery is replaced by an incorrect type. Dispose of used battery according to manufacturer's instructions.



Figure 3 - Battery Replacement

2.2. ENROLLMENT

Refer to the PowerMaster panel's Installer Guide and follow the procedure under the "02:ZONES/DEVICES" option of the Installer Menu a general description of which is provided in the following flow chart.

Step 1	Step 2	Step 3	Step 4
Enter the Installer menu and select "02:ZONES/DEVICES"	Select "ADD NEW DEVICE" See Note 1	Enroll the keypad by holding the * button and release it as soon as the yellow LED lights. Alternatively, enter the device ID (printed on the back of the keypad)	Select the desired keypad Number for the new keypad See Note 2
02:ZONES/DEVICES	ADD NEW DEVICES	ENROLL NOW or ENTR ID:XXX-XXXX	K06:Keypad ID No. 370-XXXX
	MODIFY DEVICES		

Step 5	Step 6	Step 7	Step 8
Configure Location parameter	Enter PARTITIONS. See Note 3	Assign partitions to the keypad by pressing the 1 , 2 and 3 buttons on the panel	Continue to section 2.3
K06.LOCATION	K06.PARTITIONS	K06:P1 P2 P3	K06.DEV SETTINGS


⇒ means scroll  and select 

Notes:

1. If the keypad is already enrolled, you can configure the keypad parameters and assign partitions via the "Modify Devices" option – see Step 2.
2. The first three digits of the Device ID No. "370-XXXX" refer to KP-140 PG2. For KP-141 PG2, the first three digits of the device ID No. are "371-XXXX".
3. PARTITIONS will appear only if PARTITIONING was previously enabled in the panel (for further details, see "Partitioning" in the PowerMaster Installer Guide).

2.3. Configuring the Keypad Parameters

Enter the **DEVICE SETTINGS** menu and follow the configuration instructions for the KP-140 PG2/KP-141 PG2 keypad as described in the following table.


Option	Configuration Instructions
TAMPERS	Here you determine which of the two tampers (i.e. battery compartment cover or all of the tampers) will be active. Optional settings: Disabled (default); all tampers; Battery cover . Note: For UL Listed product, set to "all tampers".
SUPERVISION	Here you determine whether or not the control panel will monitor supervision messages sent by the keypad or not (see Note). Optional settings: ON (default) or OFF . Notes: 1. Every 5 minutes the keypad performs a communication test session with the control panel (i.e. "Supervision signal") to check the integrity and quality of the Radio link. If the keypad does not report a supervision signal at least once within a predefined time window, a "MISSING" trouble alert is initiated. Therefore, if you intend to take the keypad out of the protected premises you must switch the Supervision OFF to avoid the trouble alert. 2. For UL Listed product, set to "ON".
EXIT-ENTRY Beeps	Here you determine whether the keypad will sound the exit and entry beeps, or not, or whether the keypad will sound the beeps only when the system is armed AWAY and not when it is armed HOME. Optional settings: ON; OFF (default) and OFF @ Home . Note: For UL Listed product, the sounder cannot be used as the only annunciator for the system.
BUTTON (*)	Here you select the function of the (AUX) button  . Four options are offered: Status: Control panel displays and announces (applies only to control panels that support voice) the system status. Stop Beeps: Pressing the AUX button will cause the control panel and other devices in the system (such as keypads, sirens etc.) to stop beeping (for example during exit or entry delays). Skip exit delay: Pressing the AUX button will immediately stop the exit delay. PGM: Pressing the AUX button will activate the PGM output. The functions of the PGM output is configured at the corresponding sections of the control panel's Installer Guide (see "OUTPUTS" menu) and User Guide (see "SCHEDULER" menu). Not used: No function assigned to AUX button. Optional settings: Status (default); Stop Beeps; Skip exit delay; PGM; and Not Used . Note: PGM not to be enabled in UL Listed Product.

2.4 Enrollment of Proximity Tags

The built-in proximity tag reader of the KP-141PG2 can be also used to enroll proximity tags into the PowerMaster panel via the keypad as described in the corresponding section of the control panel's User or Installer Guide, or as explained in the general description provided below.

Each proximity tag corresponds to its User Code. Therefore, be sure that a corresponding User Code is programmed for each enrolled proximity tag (code "0000" is not allowed). For example, "T02:Tag <Prox>" must be assigned to User Code 2 and "T14:Tag <Prox>" must be assigned to User Code 14. Partition authorization of each proximity tag is identical to that of the corresponding User Code. For example, if User Code 3 is set to Partitions 1 and 3, "T03:Tag <Prox>" will also be set to Partitions 1 and 3.

⇒ Means scroll  and select 

Step 1	Step 2	Step 3	Step 4
Enter the Installer menu of the control panel and select the "02:ZONES/DEVICES"	Select the "ADD NEW DEVICES" option	When "ENROLL NOW" is displayed, press the AWAY button  on the KP-141 PG2 keypad - the AWAY button begins to blink	Present the proximity tag to the KP-141 PG2 keypad within the timeout period. If the enrollment is successful the display reads "DEVICE ENROLLED" and then shows the device details
02.ZONES/DEVICES	ADD NEW DEVICES ↓ MODIFY DEVICES	ENROLL NOW	DEVICE ENROLLED T01:Tag (Prox)

3. USING THE KEYPAD

3.1 Arming and Disarming the System

Step	Basic Arming	User Actions	Keypad & Panel Response
1	Select a PARTITION ⁽¹⁾ (when Partition is enabled)	or or	The selected button lights.
2	Arm AWAY		The selected button starts blinking and prompts you to enter your "User Code" or present your Tag. See step 3.
	Arm HOME		
	Disarm (OFF)		
	Quick arm AWAY ⁽²⁾	(≈ 2 sec.)	The keypad's LED blinks red once to indicate transmission of the arming command to the control panel. The control panel's response is then indicated on the keypad via the LED and the buzzer – see "Panel Response to Keypad Commands" section 3.5 below.
	Quick arm HOME ⁽²⁾	(≈ 2 sec.)	
3	Enter USER CODE or present Proximity TAG. ^{(3) (4)}	[USER CODE] or [present TAG] [DURESS CODE] (2580 by default) ⁽⁵⁾	
4	INSTANT	(After arming HOME/ AWAY) ^{(6) (8)}	The keypad's LED blinks red once to indicate transmission of the command to the control panel. The control panel's response is then indicated on the keypad via the LED and the buzzer – see "Panel Response to Keypad Commands" in section 3.5 below.
	LATCHKEY	(After arming AWAY) ^{(7) (8)}	

Notes:

- If Partition is disabled at the control panel, skip Step 1.
- The Quick arm functions only if enabled at the control panel.
- If Quick arm is selected in Step 2, skip Step 3.
- (a) Pressing a non-valid code causes the control panel to reject the transmission.
(b) If the action is not completed while the selected arming button is blinking, the desired function will not be executed.
- To use the Duress Code refer to the respective section in the control panel's User Guide.
- Press the INSTANT button within maximum 8 seconds timeout period after completing the previous step. This will delete the entry delay for the current arming session.
- Press the AWAY button TWICE within maximum 8 seconds timeout period after completing the previous step. To use the LATCHKEY arming refer to the respective section in the control panel's User Guide.
- You can perform the LATCHKEY and INSTANT functions, one after the other. The order is not important.
- Latchkey Arming is supplemental in UL installations.

3.2 Automation

The functions of the PGM and X-10 outputs is configured at the corresponding sections of the control panel's Installer Guide (see "OUTPUTS" menu) and User Guide (see "SCHEDULER" menu).

Note: Automation not to be enabled in UL Listed Product.

Output Function	Actions	Response
X-10 or PGM device ON	[PGM → 00] or [X-10 → 01 to 15]	The keypad's LED blinks red once to indicate transmission of the command to the control panel. The control panel's response is indicated on the keypad via the LED and the buzzer – see "Panel Response to Keypad Commands" in section 3.5 below.
X-10 or PGM device OFF	[PGM → 00] or [X-10 → 01 to 15]	
X-10 or PGM device TOGGLE	[PGM → 00] or [X-10 → 01 to 15]	

Note: Long press (more than 2 sec.) of the button initiates the X-10 function. Short press of the button initiates the PGM function.

3.3 Initiating Alarms

Alarm	Actions	Response
Emergency alarm	(≈ 2 sec.)	See section 3.5.
Fire alarm	(≈ 2 sec.)	See section 3.5.
Panic alarm	(≈ 2 sec.)	See section 3.5.

Notes:

- For SIA CP01 compliance, the Emergency and Fire buttons are disabled. In case of Emergency or Fire, the two Panic alarm buttons should be used.
- For UL Listed product, Emergency is for ancillary use only.




3.4 Other Functions

Function	User Actions	Response
AUX Function ⁽¹⁾		See section 3.5.
STATUS indication		See section 3.6



Note: The function of the AUX button is configured in section 2.3 above

3.5 Panel Response to Keypad Commands




When executing a command, the keypad's LED ("M" in Figure 1) blinks red once to indicate transmission of the command to the control panel. If the operation is **successfully completed**, the green LED lights momentarily and a "happy tune" is heard. If the operation **fails or cannot be completed**, for example, when the system is "not ready", the red LED lights steadily and a "sad tune" is heard. If a trouble or alarm memory condition exists in the system, or when the system is not-ready to arm, the Status button (G in Figure 1) flashes for several seconds prompting you to press it to retrieve the status information from the control panel.



Panel Response	Buzzer Indication	LED Indication	Problem Indication 
Success: Operation is successfully completed	 Happy (success) beep	Momentary GREEN	If the panel is Not-Ready or if a Trouble or Alarm Memory conditions exit, the Status button (G in Fig.1) flashes for few seconds. To identify the reason, press the button to retrieve the Status indication - refer to section 3.6 for further information.
Fail: Operation failed	 Sad (failure) beep	Momentary RED	
No communication: Control panel does not respond.	None	None	

3.6 Retrieving and Displaying System Status

Step	Status Request	User Actions	Keypad & Panel Response
1	Request Status		The keypad's LED blinks red once to indicate transmission of the status request to the control panel.
2	Look at status		The panel's status is indicated on the keypad via the LED and the Arming Keys and Partition Keys – see below

Arming Status

The system Arming Status is indicated via the respective  arming/disarming buttons' LED that light for several seconds. For example, if the system is armed AWAY, the  button will light and if the system is disarmed, the  button will also light.

If Partition is enabled, the arming Status of the first partition is displayed concurrently with the corresponding first partition button LED , then the second partition Status is displayed concurrently with the second partition button LED  and then the third partition Status is similarly displayed.

Indication of Ready/Not Ready & Trouble Status

The Ready/Not Ready, Alarm Memory and Trouble indications are provided via the keypad LED (see "M" in Figure 1) as follows:

LED Indication [1]	System Status [2]	What it Means
Green	System READY	You can arm the system
Red	System NOT- READY	One of the zones is not secured. You can not arm the system before the zone is secured or bypassed. [3]
Yellow	Trouble or Alarm Memory	There was an alarm or there is trouble situation that need to be reviewed and cleared. [3]
Yellow blinking	Keypad Low-Battery	The battery of the keypad must be replaced as shown in section 2.1.

[1] The LED indication is displayed after the first red blink indicating the status request.

[2] If there is more than one status indication, the LED will display them consecutively.



[3] See respective sections in the control panel's User and Installer's Guides.

APPENDIX A: SPECIFICATIONS

Frequency Band (MHz)	Europe and rest of world: 433-434, 868-869 USA: 912-919** **Note: For UL Listed product, enable this frequency band.	Operating Temperature	0°C to 49°C (32°F to 120°F)
Maximum Tx Power	10dBm @ 433MHz, 14dBm @ 868MHz	Dimensions (LxWxD)	127x70x24mm (5 x 2-3/4 x 31/32 in)
Communication Protocol	PowerG	Relative humidity	93%
Battery type	3V, CR123A type. (GP)	Weight (including battery)	107g (3.4 oz)
Battery Life Expectancy	4-5 years* (for typical use).	Color	White
Low Battery Threshold	2.1 V		

* 3 years+, if used with a proximity tag

APPENDIX B: COMPLIANCE WITH STANDARDS

Compliance with Standards	  Europe: EN 300220-1, EN 50130-4, EN 50131-1 Grade 2 Class II, EN 50131-3, EN 301489, EN 60950, EN 50130-5, EN 50131-6. Hereby, Visonic Ltd. declares that the radio equipment type KP-140 PG2/KP-141 PG2 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: http://www.visonic.com/download-center . Certified by Norwegian accredited certification body Applica Test & Certification AS in accordance with EN 50131-3, EN 50131-6, EN 50131-5-3, EN 50130-4, and EN 50130-5. Applica T&C has certified only the 868 MHz variant of this product. USA: CFR 47 part 15. Canada: RSS 210. RFID Tags: ISO-18000-2 (125 kHz) UK: This product is suitable for use in systems installed to conform to PD6662 at Grade 2 and environmental class II. BS8243 <i>The Power G peripheral devices have two-way communication functionality, providing additional benefits as described in the technical brochure. This functionality has not been tested to comply with the respective technical requirements and should therefore be considered outside the scope of the product's certification.</i>
EN 50131-1 Security Grade	According to EN 50131-1, this equipment can be applied in installed systems up to and including Security Grade 2.
EN 50131-1 Environmental Class	Class II

This device complies with FCC Rules Part 15 and with Industry Canada licence-exempt standard(s). This equipment complies with FCC and IC RF radiation exposure limits set forth for an uncontrolled environment. Operation is subject to two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference that may be received or that may cause undesired operation. The digital circuit of this device 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 residential installations. 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 and television reception. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause such interference, which can be verified by turning the device off and on, the user is encouraged to eliminate the interference by one or more of the following measures:

- Re-orient or re-locate the receiving antenna.
- Increase the distance between the device and the receiver.
- Connect the device to an outlet on a circuit different from the one which supplies power to the receiver.
- Consult the dealer or an experienced radio/TV technician.

Changes or modifications not expressly approved by Visonic Ltd. could void the user's authority to operate the equipment.
WARNING! To comply with FCC and IC RF exposure compliance requirements, the device should be located at a distance of at least 20 cm from all persons during normal operation. The antennas used for this product must not be co-located or operated in conjunction with any other antenna or transmitter.

This device complies with FCC Rules Part 15 and with Industry Canada license-exempt RSS standard(s). Operation is subject to two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference that may be received or that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.



W.E.E.E. Product Recycling Declaration

For information regarding the recycling of this product you must contact the company from which you originally purchased it. If you are discarding this product and not returning it for repair then you must ensure that it is returned as identified by your supplier. This product is not to be thrown away with everyday waste. Directive 2002/96/EC Waste Electrical and Electronic Equipment.



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 INTERNET: www.visonic.com
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