

KF-235 PG2

Wireless PowerG 2-Way Keyfob


Visonic®

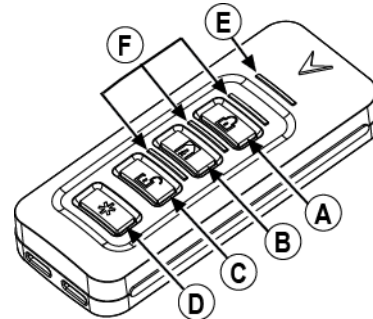
User's Guide

1. INTRODUCTION

KF-235 PG2 is a PowerG two-way 4-button keyfob, designed for use with the PowerMaster family of control panels.

KF-235 features include arming and disarming of the system as well as viewing status of system and operating a predefined programmable function. Commands are invoked by pressing any of the four command buttons. Status is indicated via the Status LEDs and buzzer after every command.

KP-235 PG2 alerts both control panel and user when its battery is depleted and needs to be replaced.




- A. ARM "AWAY" / ARM "LATCHKEY"
- B. ARM "HOME"
- C. DISARM
- D. AUX
- E. Transmission LED
- F. Status LEDs

Figure 1: External View

2. INSTALLATION

2.1 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 the procedure is provided in the following flow chart.

| Step 1 | Step 2 | Step 3 | Step 4 | Step 5 |
|---|---|--|---|---------------------------------|
| Enter the Installer menu and select "02:ZONES/DEVICES" | Select "ADD NEW DEVICE" See Note 1 | Enroll the keyfob 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 keyfob) | Select the desired Keyfob Number for the new keyfob | Enter PARTITIONS. See Note 2 |
| 02.ZONES/DEVICES | ADD NEW DEVICES | ENROLL NOW or ENTR ID:XXX-XXXX | F02:Keyfob ID No. 301-XXXX | F02:PARTITIONS |
| MODIFY DEVICES | | | | |
| Step 6 | Step 7 | | | |
| Assign partitions to the keyfob by pressing the 1 , 2 and 3 buttons on the panel | Select the "Device Settings" option and refer to section to configure the keyfob parameter (AUX). | | | |
| F02:P1 P2 P3 | DEVICE SETTINGS | | | |
| ⇒ means scroll and select OK | | | | |

Notes:

1. If the keyfob is already enrolled, you can configure the keyfob parameter and assign partitions via the "Modify Devices" option – see Step 2.
2. PARTITIONS will appear only if PARTITIONING was previously enabled in the panel (for further details, see "Partitioning" in the PowerMaster Installer Guide).

2.2 Configuring the Keyfob Parameters

Enter the **DEVICE SETTINGS** menu and follow the configuration instructions for the KF-235 PG2 keyfob as described in the following table.

| Option | Configuration Instructions |
|--------|---|
| AUX A | Here you select the function of the AUX button on the keyfob device. Options: Arm instant (default); Not Used ; Status , Stop Beeps , Skip exit delay , and PGM . Not Used : No function assigned to the AUX button. Status : Control panel displays and announces* the system status. Stop Beeps : Pressing the AUX button will cause the control panel and other devices in the system (such as keyfobs, |

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 and cause the system to arm instant.












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).

Arm instant: Pressing the AUX button while the exit delay is in progress will cause the system to arm "instant" - the entry delay is canceled.

* Applicable only to control panels that support the voice option.

3. USING THE KEYFOB



3.1 Keyfob Functionality

| Step | Functions | User Actions | ARM/DISARM LED Indication |
|------|--------------|---|---|
| 1 | Arm AWAY |  | Blue LED above AWAY button lights  |
| | Arm HOME |  | Blue LED above HOME button lights  |
| | Disarm (OFF) |  | Blue LED above DISARM button lights  |
| 2 | LATCHKEY |  | Blue LED above AWAY button lights  |
| 3 | PANIC alarm | Press the  and  buttons simultaneously (≈ 2 sec.) | - |
| 4 | AUX |  | According to the state of the alarm system, see section 2.2 |

3.2 Keyfob Response

When executing a command, the keyfob's Transmission LED 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. When executing a command and there is a communication failure between the keyfob device and the control panel, the keyfob's Transmission LED remains off and no tune is heard.

3.2.1 Primary LED and Buzzer Response to Keyfob Commands

| Panel Response | Buzzer Indication | Transmission LED Indication |
|---|--|-----------------------------|
| Success: Operation is successfully completed |  Happy (success) beep | Momentary GREEN |
| Fail: Operation failed |  Sad (failure) beep | Momentary RED |
| No communication: For example, control panel is out of range. | None | None |
| Keyfob low battery: <i>Note: If transmission is still possible despite the battery condition, the unit will send a low battery signal to the control panel.</i> | Depends on the operation that is performed | Blinks yellow 2 sec. |
| Trouble in system: | Depends on the operation that is performed | Lights yellow 2 sec. |

When forced arming (bypass zones) is performed, the keyfob buzzer "protests" by emitting a continuous tone during the exit delay for 5 seconds (for more details, see the PowerMaster Installer Guide, section 5.5.2).

3.2.2 Arming LED indication

When executing a command using the keyfob device, the status of the control panel is indicated by the status LEDs that light blue.

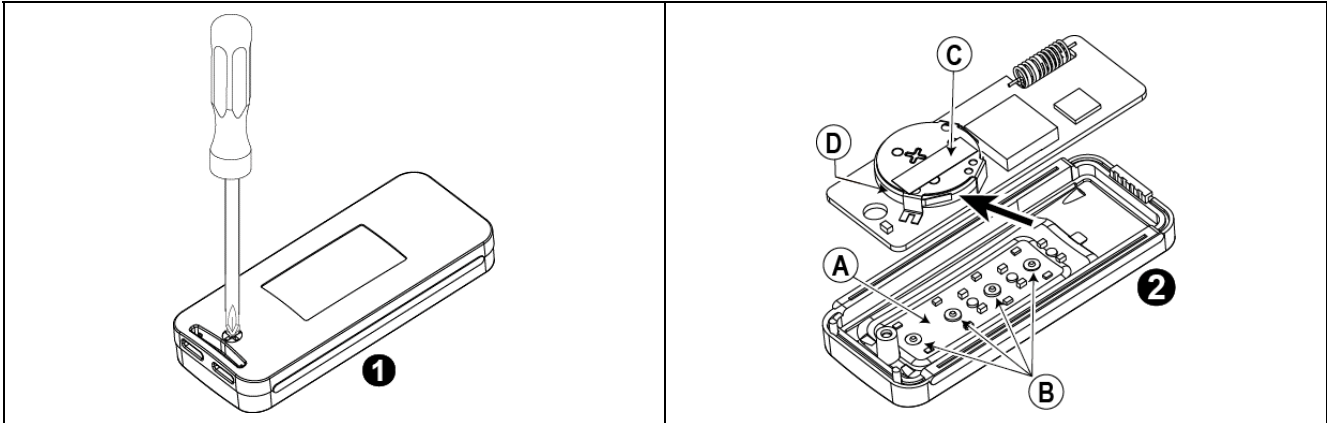
| System State | ARM/DISARM LED Indication |
|---|--|
| Exit from DISARM to AWAY | AWAY lights |
| Exit from DISARM to HOME | HOME lights |
| Entry from HOME | DISARM blinks |
| Entry from AWAY | DISARM blinks |
| Exit from HOME TO AWAY | AWAY lights |
| Exit from AWAY TO HOME | HOME lights |
| Installer mode, Sync mode or when the system is otherwise reachable but unavailable | AWAY, HOME, DISARM blink twice, wait, then blink twice again |

4. MAINTENANCE

4.1 Replacing the Battery

A replacement 3V battery, CR-2032, is available from hardware and electrical supply stores. Replace the battery as shown in Figure 2.

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



1. Remove backside screw and open the cover.
2. Using a non-metallic instrument such as a pencil, push out the battery from its holder and install new battery (polarity "+" as shown).
3. Put back the cover and re-attach it with the screw.
4. Test the unit by momentarily pressing one of the command buttons (see Figure 1) – the LED should blink.

- A. Button pad (make sure that it remains in its place).
- B. LED light guides.
- C. Battery holder.
- D. Battery

Figure 2: Battery Replacement

Caution!

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

4.2 Cleaning

Clean the keyfob only with a soft cloth or sponge moistened lightly with a mixture of water and mild detergent, and wipe it dry immediately.

The use of abrasives of any kind is strictly forbidden. Also never use solvents such as kerosene, acetone or thinner.

4.3 Periodic Test

Wireless equipment should be tested regularly to determine whether there are sources of interference and to protect against faults. Refer to the PowerMaster Installer Guide, Chapter 6 Periodic Test, for instructions on how to conduct a periodic test.

5. TROUBLESHOOTING

| Problem | Diagnosis | Proposed actions |
|--|--|---|
| Keyfob does not enroll | <ol style="list-style-type: none"> 1. Keyfob was pre-enrolled 2. The wrong ID number was entered 3. No free location 4. Unknown device | <ol style="list-style-type: none"> 1. Enroll the keyfob again in the vicinity of the control panel. 2. Reenter the ID number 3. If the maximum number of keyfobs has already been enrolled the alarm system will not allow enrolling any more keyfobs. 4. Make sure the frequency used for the device is the same as the control panel frequency. |
| Keyfob LED does not light when button is pressed | Low battery condition | Replace the battery |

6. PRODUCT LIMITATIONS

Visonic Ltd. wireless systems are very reliable and are tested to high standards. However, due to their low transmitting power and limited range (required by FCC and other regulatory authorities), there are some limitations to be considered:

Control panels may be blocked by radio signals occurring on or near their operating frequencies, regardless of the code selected.

7. COMPLIANCE WITH STANDARDS

Compliance with Standards



Europe: EN 300220, EN 50131-1 Grade 2, Class II and (EN 50134-2 Class II if used for social alarm), EN 301489, EN 50130-4, EN 60950, EN 50131-6
 The KF-235 is compatible with the RTTE requirements - Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 and EN50131-1 Grade 2 Class II.
 Certified by the Dutch testing and certificating body *Telefication BV*.
USA: CFR 47 part 15
Canada: RSS 210

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules and with Industry Canada licence-exempt RSS standard(s). 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.


Le present 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.

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 off and on, 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 receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning!

Changes or modifications to this equipment not expressly approved by the party responsible for compliance (Visonic Ltd.) could void the user's authority to operate the equipment.
This equipment complies with FCC and IC RF radiation exposure limits set forth for an uncontrolled environment.

| | |
|---|--|
| The technical documentation as required by the European Conformity Assessment procedure is kept at: UNIT 6 MADINGLEY COURT CHIPPENHAM DRIVE KINGSTON MILTON KEYNES MK10 0BZ. TEL: (0845) 0755800 FAX: (0845) 0755801 | |
|  | W.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. <u>This product is not to be thrown away with everyday waste.</u> Directive 2002/96/EC Waste Electrical and Electronic Equipment. |

APPENDIX: SPECIFICATIONS

| | |
|--|--|
| <p>Frequency Band (MHz) Communication Protocol Battery type Low Battery Threshold Battery Life Expectancy Power Supply</p> | <p>Europe and rest of world: 433-434, 868-869 USA: 912-919 PowerG 3V CR-2032 Lithium battery. 2.1 V 8 years (for typical use) Type C Note: If transmission is still possible despite the battery condition, the unit will send a low battery signal to the control panel. 0° to 55°C (32° to 131°F) Average relative humidity of approximate 75% non-condensing. For 30 days per year relative humidity may vary between 85 % and 95 % non-condensing 60 x 34.5 x 12.5 mm (2-3/8 x 1-3/8 x 1/2 in.). 25 g (0.9 oz).</p> |
| <p>Operating Temperature Humidity</p> | <p>0° to 55°C (32° to 131°F) Average relative humidity of approximate 75% non-condensing. For 30 days per year relative humidity may vary between 85 % and 95 % non-condensing</p> |
| <p>Dimensions (LxWxD) Weight (including battery)</p> | <p>60 x 34.5 x 12.5 mm (2-3/8 x 1-3/8 x 1/2 in.). 25 g (0.9 oz).</p> |

| | |
|---|--|
| <p>WARRANTY Visonic Limited (the "Manufacturer") warrants this product only (the "Product") to the original purchaser only (the "Purchaser") against defective workmanship and materials under normal use of the Product for a period of twelve (12) months from the date of shipment by the Manufacturer. This Warranty is absolutely conditional upon the Product having been properly installed, maintained and operated under conditions of normal use in accordance with the Manufacturers recommended installation and operation instructions. Products which have become defective for any other reason, according to the Manufacturers discretion, such as improper installation, failure to follow recommended installation and operational instructions, neglect, willful damage, misuse or vandalism, accidental damage, alteration or tampering, or repair by anyone other than the manufacturer, are not covered by this Warranty. The Manufacturer does not represent that this Product may not be compromised and/or circumvented or that the Product will prevent any death and/or personal injury and/or damage to property resulting from burglary, robbery, fire or otherwise, or that the Product will in all cases provide adequate warning or protection. The Product, properly installed and maintained, only reduces the risk of such events without warning and it is not a guarantee or insurance that such events will not occur. THIS WARRANTY IS EXCLUSIVE AND EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, OBLIGATIONS OR LIABILITIES, WHETHER WRITTEN, ORAL, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE. IN NO CASE SHALL THE MANUFACTURER BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS WARRANTY OR ANY OTHER WARRANTIES WHATSOEVER, AS AFORESAID. THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES OR FOR LOSS, DAMAGE, OR EXPENSE, INCLUDING LOSS OF USE, PROFITS, REVENUE, OR GOODWILL, DIRECTLY OR INDIRECTLY ARISING FROM PURCHASER'S USE OR INABILITY TO USE THE PRODUCT, OR FOR LOSS OR DESTRUCTION OF OTHER PROPERTY OR FROM ANY OTHER CAUSE, EVEN IF MANUFACTURER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. THE MANUFACTURER SHALL HAVE NO LIABILITY FOR ANY DEATH, PERSONAL AND/OR BODILY INJURY AND/OR DAMAGE TO PROPERTY OR OTHER LOSS WHETHER DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR OTHERWISE, BASED ON A CLAIM THAT THE PRODUCT FAILED TO FUNCTION.</p> | <p>However, if the Manufacturer is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty, THE MANUFACTURER'S MAXIMUM LIABILITY (IF ANY) SHALL NOT IN ANY CASE EXCEED THE PURCHASE PRICE OF THE PRODUCT, which shall be fixed as liquidated damages and not as a penalty, and shall be the complete and exclusive remedy against the Manufacturer. When accepting the delivery of the Product, the Purchaser agrees to the said conditions of sale and warranty and he recognizes having been informed of. <i>Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so these limitations may not apply under certain circumstances.</i> The Manufacturer shall be under no liability whatsoever arising out of the corruption and/or malfunctioning of any telecommunication or electronic equipment or any programs. The Manufacturers obligations under this Warranty are limited solely to repair and/or replace at the Manufacturer's discretion any Product or part thereof that may prove defective. Any repair and/or replacement shall not extend the original Warranty period. The Manufacturer shall not be responsible for dismantling and/or reinstallation costs. To exercise this Warranty the Product must be returned to the Manufacturer freight pre-paid and insured. All freight and insurance costs are the responsibility of the Purchaser and are not included in this Warranty. This warranty shall not be modified, varied or extended, and the Manufacturer does not authorize any person to act on its behalf in the modification, variation or extension of this warranty. This warranty shall apply to the Product only. All products, accessories or attachments of others used in conjunction with the Product, including batteries, shall be covered solely by their own warranty, if any. The Manufacturer shall not be liable for any damage or loss whatsoever, whether directly, indirectly, incidentally, consequentially or otherwise, caused by the malfunction of the Product due to products, accessories, or attachments of others, including batteries, used in conjunction with the Products. This Warranty is exclusive to the original Purchaser and is not assignable. This Warranty is in addition to and does not affect your legal rights. Any provision in this warranty which is contrary to the Law in the state or country were the Product is supplied shall not apply. Warning! The user must follow the Manufacturer's installation and operational instructions including testing the Product and its whole system at least once a week and to take all necessary precautions for his/her safety and the protection of his/her property.</p> |
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VISONIC LTD. (ISRAEL): P.O.B 22020 TEL-AVIV 61220 ISRAEL. PHONE: (972-3) 645-6789, FAX: (972-3) 645-6788
VISONIC INC. (U.S.A.): 65 WEST DUDLEY TOWN ROAD, BLOOMFIELD CT. 06002-1376. PHONE: (860) 243-0833, (800) 223-0020.
FAX: (860) 242-8094
VISONIC LTD. (UK): UNIT 6 MADINGLEY COURT CHIPPENHAM DRIVE KINGSTON MILTON KEYNES MK10 0BZ. TEL: (0845) 0755800
FAX: (0845) 0755801. **PRODUCT SUPPORT:** (0845) 0755802
VISONIC GmbH (D-A-CH): KIRCHFELDSTR. 118, D-40215 DÜSSELDORF, TEL.: +49 (0)211 600696-0, FAX: +49 (0)211 600696-19
VISONIC IBERICA: ISLA DE PALMA, 32 NAVE 7, POLIGONO INDUSTRIAL NORTE, 28700 SAN SEBASTIÁN DE LOS REYES, (MADRID), ESPAÑA.
TEL (34) 91659-3120, FAX (34) 91663-8468. www.visonic-iberica.es
INTERNET: www.visonic.com
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